



DAYANANDA SAGAR
UNIVERSITY



DAYANANDA SAGAR UNIVERSITY

School of Engineering

DEPARTMENT OF CSE
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

PRESENTS
THE

ML INSIDER

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VISION

Transform lives through excellence in engineering education, research and innovation with an emphasis on sustainability, inclusive technologies and global needs.

MISSION

Design and deliver contemporary engineering curricula to address regional and global needs while emphasising ethics, values, integrity and regional relevance.

Carry out high impact academic research, industry projects and innovation activities with active student engagement to advance science and engineering knowledge and state - of- the-art industry practices.

Develop regional and national leaders to advance the society and economy.



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▶ DEAN'S MESSAGE

Dr. Udaya Kumar Reddy K R
Dean, School of Engineering, DSU



BE YOU
BE THE DIFFERENCE!!!

I am delighted that the Department of Artificial Intelligence and Machine Learning, School of Engineering is bringing out a newsletter that can provide beautiful insights for students and faculty fraternity.

A lot has been happening in the School of Engineering, Department of CSE (AI&ML) over the years. Our graduate students are doing amazing things in many different areas. In the current issue, you'll meet some remarkable students and faculty who are making a difference in the technical aspects and otherwise. We hope to build this endowment with your support, to afford even more opportunities for students to participate in this important component of their graduate education.

I hope this magazine provides the reader with wonderful insights and I thank the editorial team for their wonderful effort in bringing out this newsletter.

Wish you all the best.



DAYANANDA SAGAR
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DEPT. OF CSE (AI & ML)

VISION

To produce graduates in Computer Science and Engineering (Artificial Intelligence & Machine Learning) through excellence in education and research with an emphasis on sustainable eco-system that contributes significantly to the society.

MISSION

Impart quality education through the state-of-the-art curriculum, infrastructure facilities, cutting edge technologies, sustainable learning practices and lifelong learning.

Collaborate with industry-academia and inculcate interdisciplinary research to transform professionals into technically competent.

Produce engineers and techno-entrepreneurs for global needs.



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CHAIRPERSON'S MESSAGE

Dr. Jayavrinda Vrindavanam V
Professor & Chairperson,
CSE (AI & ML)
SoE, DSU



It is with great pleasure that I am writing this message for Volume-3 Issue 02 of the Computer Science and Engineering (Artificial Intelligence & Machine Learning) Program Newsletter for the academic year 2024-2025. Apart from supporting the dissemination of the Departmental initiatives, the newsletters encourage the students to actively contribute and also support in dissemination of their ideas and activities. The contemporary academic world offers tremendous opportunities for exploration, experimentation and collaboration through the joint initiatives of faculties and students. The forums like newsletters provide a visible platform to reach out the on-going activities to wider audiences, especially students. The newsletter also provides a platform to disseminate emerging focus areas and functions as a medium to display expressions. I am sure that the activities organized by the student clubs, competitive forums, and students' extra-curricular and co-curricular initiatives will now receive an added impetus with the introduction of this newsletter.

The CSE(AI&ML) as hitherto, has been offering a dynamic activity-oriented learning environment to the students backed by our highly qualified and experienced faculties. I am sure that, these activities will be disseminated through such newsletters.

Best wishes.

DEPARTMENT FACULTY



**Dr. Jayavrinda
Vrindavanam V**

Professor & Chairperson

Dr. Jayavrinda Vrindavanam is the Professor and Chairperson of the Department of Computer Science Engineering (Artificial Intelligence (AI) and Machine Learning (ML)). She has worked extensively in Industry, Research, and Teaching across India and abroad. Her areas of academic research interest are Pattern Recognition, Artificial Intelligence, Image Processing, Machine Learning etc. After completing of B.E from Mangalore University (1997), Prof. Jayavrinda completed M. E Degree from Mumbai University (2007) and Ph.D from NIT, Durgapur in the year 2013. Currently five PhD scholars are working under her guidance.

Prof. Jayavrinda has been functioning as faculty of Computer Science Engineering and Electronics and Communication Engineering at various Institutes across India and abroad and during this period, Prof. Jayavrinda has received research funding from several organisations. She has more than 80 publications in international journals and conferences which include IEEE and Springer. She continues to be a reviewer of IEEE Access, IEEE Conferences Bangalore and Mumbai sections and IJCRT. She is also nominated into advisory Board Member of the Medicon open access Journal. She has delivered quite a few technical talks at different forums in the area of Machine Learning and its Applications, and current trends in Machine learning. Her research interests are ML approach to speech processing, energy forecasting and application of ML in the area of behavioural science.



**Dr. Hanumanth Sastry
Sistla,
Professor**

Dr. Hanumanth Sastry Sistla is a Professor in the Department of Computer Science Engineering (AI & ML) with extensive experience in academia, industry, and research. He is an invited speaker at prestigious conferences and universities worldwide. His expertise spans AI, ML, Deep Learning, Generative AI, and quantitative finance. With a PhD from Andhra University (2016) and degrees from Delhi University, Pondicherry University, and NIELIT, he has served as a Lead Architect in AIML workflows and published over 20 papers in international journals and IEEE conferences. His research focuses on AI, Big Data, Predictive Analytics, and Risk Modelling in FinTech.



**Dr. Bahubali Shiragapur
Professor**

Dr. Bahubali Shiragapur is a Professor in the School of Engineering, AI & ML department, with 23 years of experience. His expertise spans Machine Learning, Quantum Computing, Wireless Communication, Robotics, IoT, Image and Signal Processing, and Coding Theory. He has published over 40 articles in peer-reviewed journals, filed three Indian patents, authored a book and three book chapters with CRC Press, and completed three R&D-funded projects. He has guided 50+ undergraduate, seven postgraduate, and three PhD scholars graduated and presently two Scholars are working under his guidance. He is also an active member of the Bharath 6G Alliance, GOI.

Previously, Dr. Bahubali served as Director at D Y Patil International University and held key roles like Dean R&D and Head of TBI at Ajeenkya DY Patil School of Engineering. A mentor for ABU ROBOCON and IRO competitions, he is a reviewer for journals like IEEE and Springer and a Life Member of ISTE and SDIWC.

DEPARTMENT FACULTY



**Dr. Joshua Arockia
Dhanraj
Professor**

Dr. Joshua Arockia Dhanraj, recognized among the World's Top 2% Scientists (Stanford University & Elsevier Database, 2025), is currently serving as a Professor in Computer Science and Engineering (Artificial Intelligence & Machine Learning) at the School of Engineering, Dayananda Sagar University, Bengaluru, India. Before joining DSU, he was affiliated with the Centre for Automation and Robotics (ANRO) in the Department of Mechatronics Engineering, Hindustan University, Chennai, Tamil Nadu, India, and worked as a Teaching cum Research Assistant (TRA) at the School of Mechanical and Building Sciences (SMBS), VIT University, Chennai Campus, India. He also held the position of Post-Doctoral Researcher at the Environmental Assessment and Technology for Hazardous Waste Management Research Center, under the Faculty of Environmental Management, Prince of Songkla University, Thailand. Dr. Joshua is actively associated as an Adjunct Faculty at both the University Centre for Research & Development (UCRD), Chandigarh University, Mohali, India, and the Research and Development Cell, Lovely Professional University, Jalandhar-Delhi Grand Trunk Road, Phagwara, Punjab, India. Additionally, he serves as the Chief Research Manager and Advisor at Smart Green Grid Solutions, India. He earned his Bachelor of Engineering in Electronics and Communication Engineering from Anna University, Chennai, India, followed by a Master of Technology in Mechatronics from VIT University, Chennai Campus, Tamil Nadu, India. He also completed his Master of Business Administration in Human Resource



**Prof. Suresh
Kandasamy
Professor of Practice**

Prof. Suresh Kandasamy is an accomplished technology and academic leader with over two decades of experience in Engineering, DevOps, and Digital Transformation. He currently serves as Vice President - Engineering & DevOps at Sumeru Enterprise Tiger Solutions, where he leads AI-driven delivery transformation and product engineering initiatives.

A PMI-PMP® Authorized Training Partner Instructor and an active speaker, Prof. Suresh has conducted numerous sessions on AI in Project Management, Agentic AI for DevOps, and Digital Product Governance. His professional journey combines leadership in enterprise innovation with a strong passion for applied research and mentoring.

He is presently pursuing a Doctorate in Business Administration (DBA) in Emerging Technologies - Generative AI at Golden Gate University, San Francisco, focusing on AI-augmented project management, DevSecOps automation, and digital delivery optimization. He holds a B.Tech in Information Technology from Anna University and an M.S. in Software Systems from BITS Pilani.

Prof. Suresh is deeply committed to bridging academia and industry by mentoring students, promoting innovation, and integrating real-world technology practices into academic learning.



**Dr. Vegi Fernando A
Associate Professor**

Dr. Vegi Fernando A is currently an Associate professor in Computer Science & Engineering (AIML) Program at DSU. Before this, she was an Associate Professor at SCAD College of Engineering and Technology at Computer Science & Engineering Department. She has Completed her UG at Manonmaniam Sundaranar University, Tirunelveli, PG from Anna University and her Doctorate of Philosophy (PhD) in the field of Deep Learning at Anna University, Chennai. She has around 17 years of teaching experience in various domains. She has been a resource person at various FDP's, Speaker at various International and National conferences / workshops. Her areas of interest include Deep Learning, Cloud Computing, Programming and analysis of algorithms. Presently she is mentoring two PhD scholars.

DEPARTMENT FACULTY



Dr. Vinutha N
Associate Professor

Dr. Vinutha N is currently working as an Associate professor in the Department of Computer Science & Engineering (AIML) at DSU. Before this, she was an Assistant Professor at Hyderabad Institute of Technology and Management in the Computer Science & Engineering (ET). She has Completed her UG from VTU Belgaum, PG from UVCE, Bangalore University, and Doctorate of Philosophy (PhD) in the field of Machine learning at UVCE, Bangalore University, Bengaluru, Karnataka. She has around 10 years of teaching experience and published 11 research papers at various refereed International Conferences and Journals. She has received Best Paper Award in the Fourteenth International Conference on Information Processing (ICInPro), 2018. She has been a resource person at various FDP's, workshop, and speaker at International conferences. Her areas of interest include Machine learning, Bioinformatics, Image Processing, Data Science. Presently she is mentoring three PhD scholars.



Dr. Prateek Verma
Associate Professor

Dr. Prateek Verma is currently serving as an Associate Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. He holds a B.Tech. in Electronics and Communication Engineering from Govind Ballabh Pant Engineering College Pauri Garhwal Uttarakhand, India, M.Tech. and Ph.D. in Geomatics Engineering from IIT Roorkee, Roorkee, India. He has also completed two years of Post Doc from IIT Bombay. With over six years of teaching and research experience, Dr. Prateek has demonstrated a strong commitment to academic and research excellence. He was awarded with DAAD IIT-TU9 Masters Sandwich Scholarship by German Government to pursue his Masters Research in Leibniz University Hannover Germany for a period of 7 months in 2012. Dr. Prateek has a strong research profile with more than 10 papers in International Journals (SCI/Scopus) along with 50+ papers in International Conferences indexed in Scopus. His Scopus h-index is 6 with 108 citations and google scholar h-index is 7 along with 167 citations respectively.

In addition to his academic and research pursuits, Dr. Prateek has guided several students projects working in the field of Machine Learning, IoT, Healthcare and agriculture resulting in publications at different levels. He has also been awarded with Best Teacher Award two times in 2023 and 2024 respectively in his previous organization.



Dr. Mude Nagarjuna Naik
Associate Professor

Dr. Mude Nagarjuna Naik is currently working as an assistant professor in Computer Science and Engineering (AI&ML) at Dayananda Sagar University in Bangalore, India. Dr. Nagarjuna Naik completed his PhD from Kyung Hee University, Seoul, South Korea (2023) (QS world Rankings =328), M. Tech from IIT Hyderabad (2017), and B.Tech from JNTU Anantapur (2013), Andhra Pradesh, India. His research areas are Machine Learning, Artificial Intelligence, Internet of Things (IoT), Wireless Sensor Networks, Embedded Systems, Organic Electronics, Nano Electronics, Quantum Dot Light-Emitting Diodes (QLEDs), Organic Light-Emitting Diodes (OLEDs), and Photonics. Dr. Nagarjuna Naik has around 9 years of research and teaching experience, published over 22 papers in peer-reviewed Q1 SCI(E) Journals and international conferences and got the best paper award at the IDW'22 conference held in Japan, also published one patent. He has received the Prestigious President's and BK21Plus Scholarship award from the South Korean government for PhD, he also awarded a travel grant to attend the international conference, SID'2019, San Jose, USA, qualified GATE exam in 2015 and scored 93.7 percentile.

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Dr. Abdul Haq Nalband
Associate Professor

Dr. Abdul Haq Nalband is an Associate Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. He holds a Ph.D. in 5G Technologies from REVA University (2022) and recently completed a Visiting Postdoctoral Fellowship in Cybersecurity at City, University of London, UK. With 11 years of teaching, seven years of research, and one year of industry experience, he has also served as a nodal officer for NBA and NAAC accreditations, focusing on skill development and industry collaboration. Dr. Abdul Haq has published over 20 research articles, holds three patents (including one international patent), and is currently working on an ISRO-funded project on ultra-massive MIMO architecture. His research interests include 5G and Beyond, AI, IoT Security, and wireless communication. He is a member of IEEE, a Life Member of ISTE, and an Associate Member of IETE, India.



Dr. Princy Randhawa
Associate Professor

Dr. Princy Randhawa is an Associate Professor in the Department of Artificial Intelligence and Machine Learning at the School of Engineering, Dayananda Sagar University, Bengaluru. She holds a Ph.D. in AI/ML-based Wearable Technologies from Manipal University Jaipur, along with an MBA in Business Analytics and Data Science, M.Tech. in Control Systems, and B.Tech. in Applied Electronics and Instrumentation.

She has published 23 journal papers, 6 book chapters, and presented her research at over 20 national and international conferences, with publications in reputed SCI/SCIE, Scopus, and Web of Science indexed journals, including IEEE Transactions on Automation Science and Engineering and Journal of Sensors. Her research interests include machine learning, wearable technologies, control systems, and their applications in healthcare, human safety, IoT, robotics, and industrial AI. She is also a co-inventor of multiple patents in smart healthcare and IoT devices.

Dr. Randhawa is a recipient of several prestigious awards, including the Dr. Ramdas Pai Professional Excellence Award and All-Rounder Award, and has received a SERB Travel Grant to present her research at Oxford University, UK. She has served as Convener, Technical Committee Member, and Session Chair for leading conferences, coordinated multiple ATAL FDPs, and actively reviews for Q1 and Q2 journals. She is a Senior Member of IEEE and actively engages in academic outreach and social awareness programs.



Dr Jitendra Jaiswal
Associate Professor

Dr. Jitendra Jaiswal is an Associate Professor in the Department of Computer Science and Engineering (AI & ML) at Dayananda Sagar University, Bengaluru. He holds a Ph.D. in Data Analytics and has teaching experience across engineering, science, and management disciplines, with a focus on bridging theory and real-world applications through hands-on and industry-oriented learning.

His research interests include AI, machine learning, data-driven decision-making, and the societal impact of intelligent systems in domains such as education, healthcare, and finance. He has published research in reputed SCI/SCIE/Scopus and Web of Science indexed journals and conferences and actively serves as a reviewer for leading journals in statistics and machine learning.

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Dr. Animesh Srivastava
Associate Professor

Dr. Animesh Srivastava, with nearly 16 years of experience in teaching and academic leadership, Dr. Srivastava holds a Ph.D. in Computer Science and Engineering and has made substantial contributions to curriculum development. His teaching expertise spans Core Java, Machine Learning, Database Management Systems, and Software Engineering. Dr. Srivastava's research focuses on the applications of IoT and Artificial Intelligence in Agriculture, addressing challenges related to smart farming, automation, and sustainable agri-tech systems. He is deeply committed to interdisciplinary collaboration and continuous professional development, ensuring his work remains aligned with evolving technological frontiers. He has published more than 50 research papers in reputed international journals and conferences. Through his sustained academic and research excellence, Dr. Srivastava continues to contribute significantly to advancing knowledge and technological innovation in the field of Computer Science and Engineering.



Dr. Sumant Kumar Mohapatra
Associate Professor

Dr. Sumant Kumar Mohapatra is an Associate Professor in the Department of Computer Science and Engineering (AI & ML) at Dayananda Sagar University (DSU), Bengaluru, India. He holds a Ph.D. in Computer Science and Engineering from Siksha 'O' Anusandhan (SOA) University, Bhubaneswar, along with an M.Tech. in Communication Engineering, B.E., and a Diploma in Electronics and Telecommunication Engineering.

With over 20 years of teaching and research experience, Dr. Mohapatra has published 80+ research papers in reputed SCI/Scopus-indexed journals, conferences, and book chapters with leading publishers such as Springer, Elsevier, and CRC Press. His research interests include Artificial Intelligence, Machine Learning, Deep Learning, IoT, Biomedical Signal Processing, Optimization Algorithms, and Intelligent Systems, with applications in healthcare, automation, and sustainable technologies.

He is the inventor of several national and international patents, including AI-based solutions for traffic safety, healthcare monitoring, and smart devices, and has received multiple Best Paper Awards at international IEEE conferences. Dr. Mohapatra actively serves as a reviewer for reputed Springer journals and is a member of professional bodies such as ISTE, IETE, and ISTD.



Dr. Sumit Kumar Yadav
Assistant Professor

Dr. Sumit Kumar Yadav is an Assistant Professor in the Computer Science & Engineering (AI & ML) department at DSU, Bengaluru. He earned his B.Tech in ECE from Gautam Buddha Technical University in 2010, M.Tech in Bio-medical Signal Processing from IIITDM Jabalpur in 2017, and Ph.D. in Image Processing using Deep Learning from IIT (BHU), Varanasi in 2024. Dr. Yadav qualified GATE in 2015 and received the "Teaching Assistantship" fellowship during his M.Tech and Ph.D. He has over twelve years of teaching and research experience at reputed NITs and IITs. Prior to DSU, he served as adhoc faculty in the IT department at NIT Surathkal. His research interests include image/video processing, biomedical signal processing, image dehazing, denoising, and restoration. A member of IEEE Signal Processing Society, Dr. Yadav has published extensively in SCI/SCIE Q1 journals and conferences. He has also reviewed for IEEE Transactions and other leading journals. He received the Student and Early Researcher Conference Fund at TENCON 2020 in Osaka, Japan.

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Prof. Trupthi Rao
Assistant Professor

Prof. Trupthi Rao is an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. She earned her B.E. in Electronics and Communication Engineering from Srinivas Institute of Technology in 2010 and an M.Tech in Digital Electronics and Communication from NMAMIT, Nitte, in 2015. In 2021, she completed a Post Graduate Program in Artificial Intelligence and Machine Learning from The Great Lakes University. Currently, she is pursuing her PhD in the Department of Information Technology at the Indian Institute of Information Technology, Allahabad.

With over 12 years of teaching experience, Prof. Trupthi has held key academic roles, including Board of Examination Member, Board of Studies Member, Research Coordinator, FDP Coordinator, Value-Added Program Coordinator, and Cultural Coordinator. She has also managed NAAC Criterion 2 and served as the Organizing Co-Chair for the 1st International Conference, CIISCA 2023. She has conducted several training programs and FDPs on Deep Learning, Machine Learning, Data Analytics using Excel, and Data Analysis & Visualization with Tableau. Additionally, she has delivered sessions on Machine Learning and Python as part of the AIML Training Program at ISTRAC, ISRO. She successfully led a DRDO, Pune project titled "Development of a Classifier Based on Deep/Machine Learning Algorithms for Land-Based Munitions." Prof. Trupthi has published 152 research articles in indexed journals and international and national conferences. She has received five Best Paper Awards, a Best Employee Award, and secured two KSCST research grants. A member of IEEE and a life member of ISTE, she also serves as a reviewer for several reputed journals. Her research interests include eXplainable AI, Interpretable AI, Machine Learning, Data Science, and Natural Language Processing.



Dr. Sugandha Saxena
Assistant Professor

Dr. Sugandha Saxena is an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. She holds a B.Tech in Electronics and Communication Engineering from Rajasthan Technical University (2010) and an M.Tech in VLSI Design from Amity University, Noida (2013). In 2024, she completed her Ph.D. in Artificial Intelligence from REVA University.

With over 11 years of teaching experience and five years of research expertise, Dr. Saxena has also taken on various administrative responsibilities, including coordinating NIRF and NAAC accreditations, managing NBA Criterion 5, and serving as a research and cultural coordinator. She has published more than 10 research articles in indexed journals and conferences and holds two patents for her innovations. She is a member of IEEE India and her research interests include deep convolutional networks, image processing, pattern recognition, and medical imaging.



Dr. M Lakshmanan
Assistant Professor

Dr. M. Lakshmanan serves as an Assistant Professor in the Department of Computer Science and Engineering (AI & ML). He earned his Ph.D. in Information and Communication Systems from Anna University in 2024. Prior to this, he completed his M.E. in Software Engineering (2013) and his B.E. in Computer Science and Engineering (2011), both from Anna University. With 12 years of academic experience at esteemed institutions, Dr. Lakshmanan focuses his research on Blockchain Technology applications in healthcare, particularly in Electronic Health Records, Data Security, and Health Data Analytics. He has contributed over 22 publications in SCI(E)-indexed journals, international conferences, and UGC Care Listed journals, and he holds one international patent.

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Prof. Subhash Mondal
Assistant Professor

Prof. Subhash Mondal is currently an Assistant Professor in the Computer Science & Engineering (AI & ML) Program at DSU. As before he has served his duty as an Assistant Professor, CSE, Meghnad Saha Institute of Technology, Kolkata, WB, IN, from August 2006 to August 2023. He has obtained his M. Tech (CSE '07), B. Tech (CSE '05), and B.Sc. (Mathematics (H) '02) from the University of Calcutta, IN. He is pursuing his Doctorate of Philosophy (PhD) in the field of Machine Learning, XAI, and Deep Learning in the Healthcare domain from the Central Institute of Technology Kokrajhar (CITK), Assam, in the CSE department from July 2022. He has more than 18 years 6 months of teaching experience in CSE domains. Currently, he has published 35 research articles including international Journals, conferences, and Book chapters. He has completed various FDP and MOOC courses for career development. He is a professional member of IEEE and is serving in the capacity of Faculty Adviser for the IEEE CIS SBC and IEEE RAS SBC, DSU. His areas of interest include Operating Systems, Computer Networks, Machine Learning, Design and analysis of Algorithms, Cryptography & Network Security, etc.



Prof. Sriramkumar
Assistant Professor

Prof. R. Sriramkumar is an Assistant Professor in the Computer Science Cluster (AI & ML) at the School of Engineering, Dayananda Sagar University. Previously, he held positions at Sri Sairam College of Engineering and Kings College of Engineering. He is pursuing a Ph.D. at Annamalai University and holds a B.E. in Computer Science and Engineering from Anna University (2008) and an M.Tech in Embedded Systems from Sastra University (2011). With 12 years of teaching and 1 year of industry experience, he has published eight papers in peer-reviewed journals and participated in 14 conferences. He has also authored books on Python Programming and Grid and Cloud Computing on Amazon Kindle. His areas of expertise include Python Programming, AI & ML, Cyber Forensics, Cloud Computing, Algorithm Design and Analysis, C Programming, OOP, and Software Engineering



Prof. Pradeep Kumar K
Assistant Professor

Prof. Pradeep Kumar K is currently an Assistant professor in Computer Science & Engineering (AIML) Program at DSU. Before this, he was an Assistant Professor at Sai Vidya Institute of Technology at Computer Science & Engineering Department. He has Completed his UG & PG from VTU Belgaum, currently pursuing his Doctorate of Philosophy (PhD) in the field of Reconfigurable Antennas / Wireless Sensor network using various parameters & Machine learning in REVA University Karnataka. He has around 11 years of teaching experience in various domain & 1 years of industrial experience. During his academic profession he has gained a guide recognition certificate by INSEF-2017 for his Project which served the purpose of fishermen safety & secure communication. He has been a resource person at various FDP's, Speaker at various International and National conferences / workshops and has delivered more than 30 talks across Karnataka. His areas of interest include Embedded systems, Internet of Things, 3 D modelling, Python Programming (AIML & DS), MEMS, Analog & Digital Circuits, Batteries, Solar Circuits, App development etc.

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Prof. Ankita Thakkar
Assistant Professor

Prof. Ankita Thakkar is an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. She completed her B.E. and M.E. in Information Technology from Mumbai University. She also holds an M.S. in Computer Science and Engineering from the University of Nevada, Reno, USA, and is currently pursuing a Doctor of Business Administration from the Swiss School of Business Management, Geneva.

Ankita has over 12 years of teaching and significant industry experience in full-stack development, product management, curriculum development, and instructional design. Her expertise spans areas such as Machine Learning, Deep Learning, Natural Language Processing (NLP), Cybersecurity, and Game Theory. She has held leadership roles in various EdTech organizations, where she developed educational solutions and trained educators. She is also a recipient of the Dean's Merit Scholarship from the University of Nevada, Reno, and has received multiple awards for excellence in teaching and curriculum development.

In research, Ankita has contributed to Game Theory, Machine Learning, Natural Language Processing (NLP), Cybersecurity, and Privacy Preservation, publishing a paper in an international conference and two in journals. She is passionate about bridging the gap between academia and industry. Ankita has authored a book on Core Java Programming and contributed to AI curriculum development for multiple academic institutions and EdTech companies. She has actively mentored students in AI and ML projects, focusing on predictive analytics, recommendation systems, and cybersecurity strategies.



Prof. S.V.K.R. Rajeswari
Assistant Professor

Prof. S.V.K.R. Rajeswari is an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. She holds a B.Tech. in Electronics and Communication Engineering from Bandari Srinivas Institute of Technology and an M.Tech. in Embedded Systems Technology from SRM Institute of Science and Technology. With over four years of teaching and research experience, she has earned accolades such as the NPTEL Elite+Gold Medal and two consecutive awards for Best Poster Presentation. She has also applied for two patents related to her research.

Ms. Rajeswari specializes in designing noninvasive biomedical devices for diagnosis, treatment optimization, and cure, with three devices and a software tool clinically tested at SRM Medical College. Her research integrates biomedical devices with AI, ML, and Data Science. She has published extensively in SCI/SCIE and Scopus-indexed journals, serves as a reviewer for IEEE Access and Taylor & Francis, and is a public speaker and life coach in self-transformation and career development.



Prof. Bhuvana Mohini T N
Assistant Professor

Prof. Bhuvana Mohini T N is currently serving as an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. She completed her B.Tech. in Computer Science and Engineering from Visveswaraya Technological University and M.Tech. in Artificial Intelligence and Machine learning from the M S Ramaiah University of Applied Sciences in 2022 and 2024 respectively. She has worked as Data Analyst, Web development intern and Software engineer Intern during her internships in the Industry. Her research interests are in the field of Signals and Image processing, Computer Vision, Biomedical imaging.



DEPARTMENT FACULTY



Prof. Pavithra A
Assistant Professor

Prof. Pavithra A is currently an Assistant professor in Computer Science & Engineering (AIML) Program at DSU. Currently pursuing Ph.D from VTU. Before this, she was an Assistant Professor at AMC Engineering College, in Information Science & Engineering Department. She has received M.Tech degree in Computer Science and engineering from PES University, Bangalore, in 2020 and BE degree in Information Science and engineering from the PES school of Engineering. She has published 3 International Journal papers and 1 book on Operating Systems. Her research interests include Internet of Things, Artificial Intelligence, Machine learning, and Deep Learning.



Prof. Mitha Guru
Assistant Professor

Prof. Mitha Guru is currently an Assistant professor in Computer Science & Engineering (AIML) Program at DSU. She has 2 years of teaching experience. She received her M.Tech in Data Science from JSS Science and Technology University Mysore in 2019 and B.E in Information Science and Technology from VTU Belgaum. Her areas of interest are Artificial Intelligence, Machine Learning and Deep learning and its applications. She is currently also pursuing her Ph.D from Dayananda Sagar University .



Prof. Rakshitha R
Assistant Professor

Prof. Rakshitha R is currently an Assistant professor in Computer Science & Engineering (AIML) Program at DSU. She completed her M.Tech in Computer Science and Engineering from Dayananda Sagar University (DSU) and BE in Information Science and Engineering from Vemana Institute Of Technology, Bangalore. Worked in Studique Company for 9 months. Areas of interest in Computer Vision, Python and Machine Learning.



DEPARTMENT FACULTY



Prof. Govinda Kumar Pandey
Assistant Professor

Prof. Govind Kumar Pandey is an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. He holds a B.Tech. in Electronics and Communication Engineering from Maulana Abul Kalam Azad University of Technology and an M.Tech. in Optics and Optoelectronics from the College of Science, Technology, and Agriculture, Kolkata. With over four years of teaching and research experience, he has been recognized with the 'Dr. APJ Abdul Kalam Best Researcher Award 2025'. His research focuses on graphene-based terahertz (THz) MIMO antennas for indoor wireless communication, with broader interests in THz systems, reconfigurable antennas, intelligent reflecting surfaces, beam steering, and AI/ML integration. He has published in reputed SCI/SCIE and Web of Science journals and conferences and serves as a reviewer for journals like Computer Networks & Communication and Wireless Networks. He also ran a successful tuition centre, mentoring students in science and engineering, and is known for his strong communication and public speaking skills.



Prof. Nivetha R
Assistant Professor

Prof. Nivetha R is currently serving as an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. She completed her B.E. in Computer Science and Engineering and M.E. in Data Science from the Avinashilingam Institute for Home Science and Higher Education for Women in 2021 and 2023, respectively. She has over nine months of teaching experience and 10 months of industry experience. Previously, she held academic positions at Bannari Amman Institute of Technology. In addition to her academic roles, she has undertaken various administrative responsibilities, including serving as the Industrial Collaborations Coordinator, CoE and Internship Coordinator, BoS Coordinator, and Patent Coordinator for the entire institute. During her industry experience working in Intellectual Property Rights (GOI), she provided technical and scientific assistance to the Controller of Patents and Designs by attending hearings and drafting patents. She also has experience working on the Smart Cookie Project Implementation, where she delivered over 150 presentations in colleges nationwide regarding the Smart Cookie Reward Program (AICTE). She successfully took the project live and implemented it at AICTE Headquarters in New Delhi. Her research interests lie in the fields of Deep Learning, Blockchain, and Medical Image Processing.



Prof. Sahil Pocker
Assistant Professor

Prof. Sahil Pocker is currently serving as an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. He completed his B.Tech. in Mechatronics and Automation Engineering from Manipal University Jaipur in 2020 and M.Tech. in Computer Science and Engineering from NIT Jamshedpur in 2023. Mr. Sahil has one year of industry experience at a cutting edge AI startup. His research interests span Natural Language Understanding, Neuromorphic Computing, Human-Computer Interaction, AI ethics and governance, Reinforcement Learning, and Neural Network Architectures.

DEPARTMENT FACULTY



**Ms. Pragnya
Pragatika Mishra**
Assistant Professor

Ms. Pragnya Pragatika Mishra is currently serving as an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. She holds a B.Tech. in Computer Science and Engineering from SRM University of Technology, Delhi, India, and an M.Tech. in Artificial Intelligence and Machine Learning from Vellore Institute of Technology, Vellore, India. With over three years of research experience, Ms. Pragnya, has demonstrated a strong commitment to academic excellence. Ms. Pragnya has developed expertise in diverse areas of AI, NLP, and ensemble learning through hands-on research, innovative projects, and academic training. Beyond academics, she is also known for her strong communication and public speaking skills. Her research primarily focuses on the development of hybrid AI-generated text detection techniques that integrate statistical analysis, linguistic features, and advanced machine learning models. Her broader interests include Natural Language Processing (NLP), text forensics, AI security, ensemble learning methods, and the ethical use of generative AI technologies in real-world applications. Ms. Mishra has authored multiple research papers that are currently in preparation for submission to reputed SCI/SCIE journals and international conferences. She actively engages with the research community and continuously enhances her knowledge in the domains of Artificial Intelligence, Machine Learning, and Natural Language Processing.



**Ms. Soheli
Chakraborty**
Assistant Professor

Ms. Soheli Chakraborty is currently serving as an Assistant Professor in the Department of Computer Science and Engineering (AI & ML) at Dayananda Sagar University, Bangalore. She completed her B.Tech in Computer Science and Engineering from Techno College of Engineering, Agartala, and pursued her M.Tech in Artificial Intelligence from the National Institute of Technology (NIT) Agartala. Her academic interests lie in the areas of deep learning, image processing, and computer vision. During her postgraduate studies, she worked on underwater image enhancement using advanced neural network architectures, with a focus on improving image quality through multi-scale feature learning. As an early-career academic, Ms. Chakraborty is passionate about creating a positive and engaging learning environment for students. She believes in encouraging critical thinking, hands-on learning, and continuous exploration in the rapidly evolving field of Artificial Intelligence. She is also enthusiastic about extending her research and academic growth through collaboration and innovation in AI and its real-world applications.



**Mr. Verriboina
Antony**
Assistant Professor

Mr. Verriboina Antony is currently serving as an Assistant Professor in the Department of Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University, Bengaluru. He holds a Master of Technology (M.Tech.) in Information Technology from the Indian Institute of Information Technology Allahabad (IIIT-A), Prayagraj, India and a Bachelor of Technology (B.Tech.) in Information Technology from R.V.R & J.C College of Engineering, Guntur, Andhra Pradesh, India. During his postgraduate studies at IIIT-Allahabad, Mr. Antony was actively involved in a state-sponsored research project titled "Road Object Detection During Rainy/Foggy Nights for Autonomous Vehicles," funded by the Council of Science and Technology, Uttar Pradesh. His research focused on designing deep learning models for enhancing object detection under adverse weather conditions using image deraining and dehazing techniques. He worked with Transformer-based and lightweight multi-scale neural networks optimized for edge deployment in real-time systems. Mr. Antony has publications in various international conferences such as ICPR, TENCON, and ICONIP, and was part of the organizing team for the CVMI conference held at IIIT-Allahabad. During his postgraduate studies, he also served as a Teaching Assistant (TA), where he supported undergraduate courses and academic activities under faculty supervision. His academic and research interests include computer vision, image restoration, transformer-based deep learning architectures, object detection, and efficient deployment of AI models on edge hardware.

DEPARTMENT FACULTY



**Mr. Anubrata
Singharoy**
Assistant Professor

Mr. Anubrata Singharoy has recently joined as an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University. He brings a unique blend of mathematical rigor and modern AI innovation, holding a B.Sc. in Mathematics (Honours) from The University of Burdwan, an M.Sc. in Mathematics from Ramakrishna Mission Vivekananda Educational & Research Institute, and an M.Tech. in Data Science from the prestigious Indian Institute of Technology Palakkad.

He has demonstrated exceptional academic excellence throughout his career. He has been honored with the Department Gold Medal for Outstanding Academic Performance and Excellence in Mathematics from RKMVERI and has qualified for several prestigious national examinations including CSIR NET JRF (All India Rank: 121), GATE Mathematics (All India Rank: 215), and IIT JAM (All India Rank: 223 in 2019, 367 in 2020).

His research foundation includes a comprehensive Master's thesis on coherence reduction in sparse modeling using Hadamard Transform approaches under the supervision of Prof. S. Lakshmivarahan from the University of Oklahoma. He has also contributed on matrix estimation techniques through matrix-vector-multiplication at the Indian Institute of Science (IISc), Bangalore. He was selected to attend the prestigious IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2025 as an IISC-ICASSP Fellowship Awardee.



Ms. Tejal Khade
Assistant Professor

Ms. Tejal Khade is an Assistant Professor in the Department of CSE (AI & ML) at Dayananda Sagar University, Bengaluru. She holds a B.E. in Computer Engineering from Dr. D. Y. Patil's Ramrao Adik Institute of Technology, Mumbai, and an M.Tech. in Computer Science and Engineering from NIT Surat. Her research includes deep learning-based image deblurring using CNNs during her B.E. and GAN-based data augmentation for Diabetic Foot Ulcer classification during her M.Tech., highlighting applications of AI in medical imaging. She completed a one-year internship at Intel Technology India Pvt. Ltd., working with the AI Frameworks Team on model optimization, deployment, and quantization.

Her expertise spans Artificial Intelligence, Machine Learning, Deep Learning, and Generative AI. She has published in IEEE Xplore, including ICCUBE, actively participates in technical events, and writes technical blogs to simplify AI concepts for learners.



Mr. Shivnandan Rai
Assistant Professor

Shivnandan Rai is serving as an Assistant professor in the Department of Computer Science and Engineering (AI&ML) at Dayananda Sagar University. He completed his M.Tech in Computer Science and Engineering (Artificial Intelligence) from NIT Silchar.

His areas of interest include Generative AI, Machine Learning, Deep Learning, Computer Vision, and Privacy-Preserving Technologies. During his M.Tech, he worked on projects involving Homomorphic Encryption, Next Word Prediction using LSTM, and semantic clustering of questions. He is passionate about research, teaching, and continuous learning, and strives to inspire students while advancing innovative solutions in AI and data security.

DEPARTMENT FACULTY



Mr. Partha Protim Sen
Assistant Professor

Mr. Partha Protim Sen is currently serving as an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayanand Sagar University. He holds a M.Tech in Artificial Intelligence from National Institute of Technology Silchar, Assam, India.

He has a research experience of two years in NIT Silchar

His research primarily focuses on Artificial Intelligence, Machine Learning, Deep Learning and Computer vision specially in medical Imaging which complements the projects namely "A Deep Learning YOLO Model for Robust Brain Tumor Identification using Multi-Model MRI Scans" and "Covid-19 detection using CNN". Along with that he is also currently exploring NLP, Generative AI.

Along with that has good communication skills.

Currently he has a paper which is under review namely "A Deep Learning YOLO Model for Robust Brain Tumor Identification using Multi-Model MRI Scans"



Mr. Arpit Kumar
Assistant Professor

Mr. Arpit Kumar is currently serving as an Assistant Professor in Computer Science and Engineering (AI & ML) at the School of Engineering, Dayananda Sagar University, Bengaluru. He holds a Master of Technology (M.Tech) in Information Technology from the Indian Institute of Information Technology (IIIT), Allahabad, and a Bachelor of Technology (B.Tech) in Computer Science and Engineering from Bhagalpur College of Engineering, Bihar.

Mr. Arpit's research primarily focuses on Deep Learning, Computer Vision, and NLP. His M.Tech thesis work on Crowd Behavior Analysis and Anomaly Detection involved designing a model using Convolutional Autoencoders (CAE) to identify abnormal patterns in video frames. He has published his research paper in the 16th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2025) held at IIT Indore, marking his active contribution to the academic and research community.



Ms. Upasana Shil
Assistant Professor

Ms. Upasana Shil is currently working as an Assistant Professor in the Department of Computer Science and Engineering (AI & ML) at Dayananda Sagar University, Bangalore. She holds an M.Tech degree from the National Institute of Technology (NIT) Agartala. During her postgraduate studies, she worked extensively on the fusion of hybrid transform domains and encryption techniques for imperceptible and secure medical image watermarking – a critical area aimed at strengthening data privacy in healthcare systems.

She is skilled in front-end technologies such as HTML, CSS, and JavaScript, and is proficient in Data Structures and Algorithms. Her technical expertise also extends to Cryptography, Steganography, Watermarking, and the core principles of Cyber Security. Upasana's research interests include Cyber Security, Medical Image Watermarking, and Deepfake detection, reflecting her commitment to solving real-world digital security challenges. Along with strong analytical thinking, she brings excellent communication skills to her academic and collaborative environments. With a balanced blend of technical depth and teaching ability, she aims to contribute meaningfully to both research and education in the evolving field of information security.

DEPARTMENT FACULTY



Ms. Hairunesa Beevi
Assistant Professor

Ms. Hairunesa Beevi is an Assistant Professor in the Department of Computer Science & Engineering(AI/ML) at Dayananda Sagar University, Bengaluru. She holds an M.Tech degree in Cloud Computing from SRM Institute of Science and Technology, Chennai, and a B.Tech degree in Computer Science and Engineering from KMEA Engineering College, Kerala. She has worked on notable projects, including Stroke Vision(a stroke detection system using CT images) and Multi-Objective Prioritised Workflow Scheduling using Deep Learning in Cloud Computing.

Her areas of expertise include Cloud Computing, Deep Learning, and Workflow Scheduling, with a growing research interest in applying artificial intelligence techniques to optimize cloud-based systems. She is passionate about guiding students in innovative research, encouraging participation in hackathons, coding competitions, and project-based learning. Her teaching approach focuses on a hands-on, problem-solving methodology that bridges academic concepts with real-world applications.



Prof. Kuna Srinidhi
Assistant Professor

Mrs. Kuna Srinidhi is currently serving as an Assistant Professor in the Department of Artificial Intelligence and Machine Learning (AIML) at Dayananda Sagar University. She is presently pursuing a Ph.D. in Internet of Things and Sensor Networks at Dayananda Sagar University, with an expected completion in 2026. She obtained her M.Tech in Computer Science and Engineering from GITAM University, Visakhapatnam, in 2014, graduating with a CGPA of 8.49. Prior to that, she earned her B.Tech in Information Technology from Avanthi Institute of Engineering and Technology, Narasipatnam (affiliated to JNTU Kakinada) in 2011. Her areas of academic interest include the Internet of Things (IoT), sensor networks, and emerging technologies in computer science. With a strong commitment to teaching and research, Mrs. Srinidhi strives to foster innovation and critical thinking among students while contributing to advancements in the field of computer science.



Ripunjay Jaiswar
Assistant Professor

Ripunjay Jaiswar currently serving as an Assistant Professor in Computer Science and Engineering (Artificial Intelligence & Machine Learning) at the School of Engineering, Dayananda Sagar University, Bengaluru, India, is a researcher specializing in Artificial Intelligence, Machine Learning, Medical Image Analysis, and Computer Vision. He completed his Master of Technology in Computer Science and Engineering from the National Institute of Technology Silchar, Assam, India, in 2025, where he contributed to academic instruction as a Teaching Assistant for the Operating Systems Laboratory.

Before joining DSU, he gained experience through research-oriented industrial roles. As an AI/ML Intern at Tata Electronics, Bengaluru, he worked on the development and deployment of intelligent inspection systems, automated machine learning pipelines, and production-grade analytics platforms. He also served as a Data Science Trainee at Personify, contributing to natural language processing, predictive modelling, and experimental data analysis. Additionally, he worked with Hitech Informatics Pvt. Ltd., Mumbai as a Network Engineer, developing Python-based automation solutions for large-scale SD-WAN environments.

He holds a Bachelor of Engineering in Computer Engineering from Shah and Anchor Kutchhi Engineering College, University of Mumbai, Maharashtra, India. His academic and research interests include Artificial Intelligence and Machine Learning, Deep Learning Optimization, Computer Vision, Medical Imaging, NLP, and Intelligent Decision Support Systems.

DEPARTMENT NON TEACHING STAFF



Mrs. Nagaveni M
Office Assistant

Mrs. Nagaveni M is currently serving as an Office Assistant in the Computer Science and Engineering (AI & ML) department at Dayananda Sagar University, Bangalore, India. She completed her B. Com and in Previously, she worked as a Receptionist at K S Institute of Technology in Raghuvanahalli, Bengaluru, and as an Office Assistant at SJB Institute of Technology in Kengeri, Bengaluru. Ms. Nagaveni has extensive experience in managing Institutional tasks, particularly in the context of engineering academics.



Prof. Prashanth B G
Lab Instructor

Mr. Prashasth B G is currently serving as a Lab Instructor in the Computer Science and Engineering (AI & ML) department at Dayananda Sagar University, Bengaluru, Karnataka, India. He completed his B.E. in Computer Science and has obtained a Global Red Hat Certification. His areas of interest include Linux Server Administration and Cloud Computing.



Mrs. Vaibhavi S
Lab Instructor

Mrs. Vaibhavi S is currently working as a Lab Instructor in the department of Artificial Intelligence and Machine Learning, Dayananda Sagar University, Bengaluru. She has completed her Bachelor of Computer Applications (BCA) from Vijayanagara Sri Krishnadevaraya University, Ballari. She has 3 years of working experience in an autonomous engineering institutions, Ballari. She has the subject expertise in C programming, Python programming and Unix operating systems. She has assisted the UG students in laboratory projects with plagiarism check reports using Turnitin software. She has the ability to adapt to the new situation and learn new things to teach in quick time.

DEPARTMENT NON TEACHING STAFF



Ms. Safiya Nazreen M
Lab Instructor

Ms. Safiya Nazreen M is currently working as a Lab Instructor in the department of CSE - Artificial Intelligence and Machine Learning, Dayananda Sagar University, Bengaluru. She has completed her Bachelor of Engineering (B.E) in Computer Science and Engineering from Anna University, Chennai. She has a strong academic background. She has the subject Python programming, Database Management Systems and Windows Operating Systems. She has a strong passion for teaching and she is keen in learning new advancements in the field of Computer Science and Engineering.



Ms. Rakhi K

Ms. Rakhi K is currently working as a Lab Instructor in the department of Artificial Intelligence and Machine Learning, Dayananda Sagar University, Bengaluru. She holds a Diploma in Computer Hardware Engineering and brings with her a strong foundational knowledge in computer systems, hardware troubleshooting, and technical support. With a keen interest in emerging technologies and a dedication to academic excellence, she supports hands-on learning and assists students in effectively understanding and applying core technical concepts in laboratory sessions. Her commitment to creating an engaging and practical learning environment makes her a valuable addition to the department.



Ms. Patan Fiza Banu

Patan Fiza Banu received Bachelor's degree in Computer Science and Engineering from Jawaharlal Nehru Technological University, Anantapur in 2024. She has successfully completed Full Stack Java Developer Training (Excel R, Dec 2023 - July 2024) and holds certifications in Python (Pantech Learning, APSSDC workshop) and Public Speaking (NPTEL). Her technical expertise spans C, Python, Java, SQL, JDBC, HTML, CSS, JavaScript, and Spring framework, with additional knowledge of Linux, Git, and basic cloud services. She has undertaken academic projects including Offensive Language Detection on Social Media using Text Classification, Car Rental System, and a Basic Amazon Website Clone, demonstrating strong problem-solving and application development skills. Along with technical proficiency, she possesses excellent organizational, communication, and interpersonal skills, with the ability to work both independently and collaboratively. She is passionate about learning emerging technologies and applying them toward innovative software solutions.

NEWS



DEPARTMENT ARTICLES



Self-Evolving Digital Twins: A New Paradigm for Intelligent AI-Driven Mechatronic and Healthcare Systems

- Dr. Joshua Arockia Dhanraj, Professor, CSE (AI&ML), SoE, DSU

Digital Twin technology has become a foundational enabler in modern engineering systems; however, most deployed digital twins remain largely static, reactive, and dependent on predefined physics-based or data-driven models. Such limitations restrict their ability to respond effectively to dynamic environments, system degradation, and human variability. As artificial intelligence, mechatronics, and computer science increasingly converge toward autonomous and human-centric systems, there is a pressing need to re-envision digital twins as continuously adaptive and intelligent entities rather than passive virtual replicas.

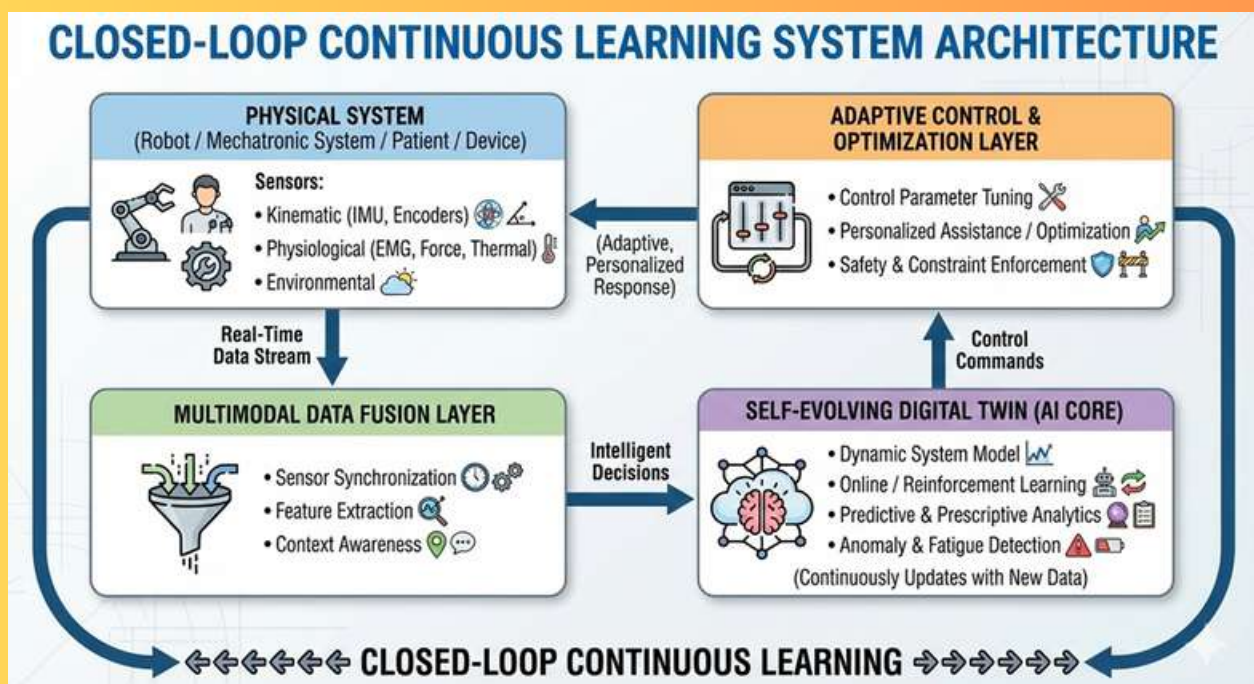
This article presents the concept of Self-Evolving Digital Twins (SEDTs), an advanced digital twin paradigm that tightly integrates AI, real-time sensing, and closed-loop control to enable lifelong learning and adaptation. Unlike conventional digital twins that merely mirror system states, SEDTs actively update their internal models using streaming data and machine intelligence. By embedding learning mechanisms directly within the operational loop, these twins can predict future behavior, optimize performance, and autonomously adapt to changing system dynamics and user interactions.

From an AI and Computer Science perspective, self-evolving digital twins leverage online learning, reinforcement learning, and probabilistic reasoning to support continuous model refinement and decision-making. Multimodal data streams from sensors are fused using intelligent algorithms to construct a dynamic, context-aware representation of the physical system. This enables real-time anomaly detection, predictive analytics, and adaptive optimization without reliance on repeated offline retraining. Such capabilities position SEDTs as intelligent cyber-physical agents rather than static simulations.

In the domain of Mechatronics, self-evolving digital twins introduce a transformative approach to system control and autonomy. By coupling sensing, actuation, and AI-driven adaptation, SEDTs enable mechatronic systems to self-tune control parameters, respond to environmental uncertainties, and compensate for component wear or payload variations. Applications span intelligent robotics, assistive devices, smart manufacturing systems, and autonomous platforms, where adaptability and reliability are critical performance metrics.

The relevance of self-evolving digital twins is especially pronounced in healthcare and human-centric systems, where personalization is essential. AI-driven digital twins can model individual-specific biomechanics, physiological responses, and behavioral patterns, enabling personalized rehabilitation, adaptive assistive robotics, and proactive health monitoring. This approach moves beyond generic control strategies toward patient-specific intelligence, significantly improving safety, effectiveness, and user engagement.

Viewed through the lens of Industry 5.0, self-evolving digital twins represent a key enabling technology for resilient, sustainable, and human-focused systems. They support predictive maintenance, energy-efficient operation, and ethical AI deployment by ensuring transparency and responsiveness. While challenges remain in areas such as real-time validation, data security, and computational scalability, the transition from static digital twins to self-evolving intelligent counterparts marks a decisive step toward next-generation AI-powered engineering systems.



AI & ML in Industry: From Experiments to Engineered Intelligence

- Prof. Suresh Kandasamy Professor of Practice, CSE (AI&ML), SoE, DSU

Artificial Intelligence and Machine Learning have moved decisively beyond experimentation in industry. Today, AI is no longer evaluated solely by model accuracy or benchmark performance, but by its ability to operate reliably as part of large-scale, real-world systems.

A clear industry trend is the transition from model-centric development to system-centric AI engineering. Organizations are building end-to-end AI platforms where data pipelines, models, infrastructure, monitoring, and governance work together as a cohesive system. The emphasis has shifted toward robustness, latency, scalability, and measurable business impact.

Another major development is the rise of real-time and edge AI. Applications such as autonomous driving, industrial automation, video analytics, and IoT systems require decisions to be made in milliseconds, often on constrained hardware. This has driven innovation in efficient architectures, hardware-aware model design, and deployment strategies that bring intelligence closer to where data is generated.

Industry is also seeing rapid adoption of agentic AI systems. Instead of isolated predictive models, modern solutions increasingly use AI agents that can reason, plan, interact with tools, and adapt dynamically. These systems combine large language models, classical machine learning, and software engineering principles to automate complex workflows across domains such as operations, finance, healthcare, and software development.

Equally important is the growing focus on MLOps, governance, and responsible AI. Enterprises recognize that maintaining trust in AI systems requires continuous monitoring, drift detection, explainability, and compliance. Managing the AI lifecycle has become as critical as building the model itself.

For students and practitioners, this evolution highlights an essential reality: strong foundations in algorithms and data remain vital, but industry impact increasingly depends on systems thinking, deployment awareness, and ethical responsibility.

The future of AI belongs to those who can engineer intelligence that works reliably in the real world.

The Game Is Not the Score

- Prof. Sahil Pocker, Assistant Professor, CSE (AI&ML), SoE, DSU

Chess and Go compress infinity into finite rules. Six piece types and 64 squares generate more possible games than atoms in the observable universe. Go's single rule (surround to capture) produces complexity beyond computational tractability. Yet both games persist across millennia not because they're difficult, but because the constraints they impose make strategic thinking visible and trainable. When we play, we're not optimizing outcomes. We're developing cognitive capacity. AlphaGo's victory over Lee Sedol proved the game's complexity is computationally navigable. The algorithm found moves that shocked experts but made sense once explained. Here's the critical distinction: the game was designed for exploration, not winning. The algorithm navigates efficiently but doesn't engage with what the game reveals about strategic thinking, trade-offs, or reading intent. It sees numerical optimization toward a terminal condition, not the projection of real-world reasoning that humans map onto the board. This same pattern applies to language and science. LLMs generate text by probability distribution over token sequences. When you write a research paper, word choice is constrained by observational evidence, theoretical commitments, logical consistency, and data support. These are epistemic constraints, not stylistic preferences. The LLM has no equivalent mechanism. It generates statistically likely tokens without checking whether claims are supportable or maintaining referential chains to actual evidence. You cannot do science by optimizing text distributions. You do science by constraining language to track reality. LLMs can assist with phrasing or literature review, but they cannot replace ensuring words map to actual states of affairs. Understanding what LLMs actually do changes what you should expect from them. If you're working on transformer architectures, you're modifying the same technology stack that powers these models. You know attention mechanisms compute weighted combinations of embedded representations without "understanding" input. That same limitation applies when the model generates text about your research domain. The skill gap isn't "should I use LLMs?" It's "can I verify LLM output against domain requirements?" That second skill, the ability to evaluate correctness independent of surface plausibility, separates competent researchers from people who generate research-shaped text. When headlines declared Go "solved" after AlphaGo's victory, they confused navigation with purpose. The game was navigated. Its purpose, developing human strategic thinking, remains intact. Similarly, LLMs generating research-quality text doesn't "solve" scientific writing. Text generation and epistemic verification are different activities. Your education is teaching you the purposes, not just the tools. The algorithm optimizes. You understand what optimization is for. That difference matters more now than ever.

From Prompts to Agents: The Evolution of Intelligent AI Systems

- AGASTHYA R KUMAR -ENG22AM0001, 7th sem, AIML, DSU-SOE

My journey into intelligent AI systems began during my internship, where the focus extended beyond traditional prompt-based interactions toward the development of Agentic AI solutions for real-world applications. This experience marked a pivotal shift in my understanding of artificial intelligence—from viewing it as a passive responder to recognizing it as an active system capable of reasoning, planning, and executing actions autonomously. Initial responsibilities centered on analyzing structured and numerical datasets to derive actionable insights. Over time, this work evolved to include generative models that could interpret context, synthesize complex information, and respond dynamically to changing inputs. This progression underscored a fundamental transformation in modern AI: systems are no longer confined to isolated tasks but are engineered to operate across interconnected workflows, adapting continuously to user intent and environmental signals.

Through hands-on interaction with platforms such as ParamAI, I gained practical exposure to how simple prompts mature into fully orchestrated agents. Rather than relying on static instructions, these systems are constructed using layered system prompts, integrated tools, APIs, and carefully designed guardrails that enable controlled autonomy. AI agents can query databases, invoke external services, process unstructured documents, handle voice and chat interactions, and perform tasks such as sentiment analysis—all while preserving contextual continuity. This orchestration layer is what transforms a large language model into a functional AI agent: one that can observe its environment, reason over available information, take informed actions, and operate within clearly defined boundaries. The emphasis shifts from merely generating responses to reliably achieving outcomes in a secure and scalable manner.

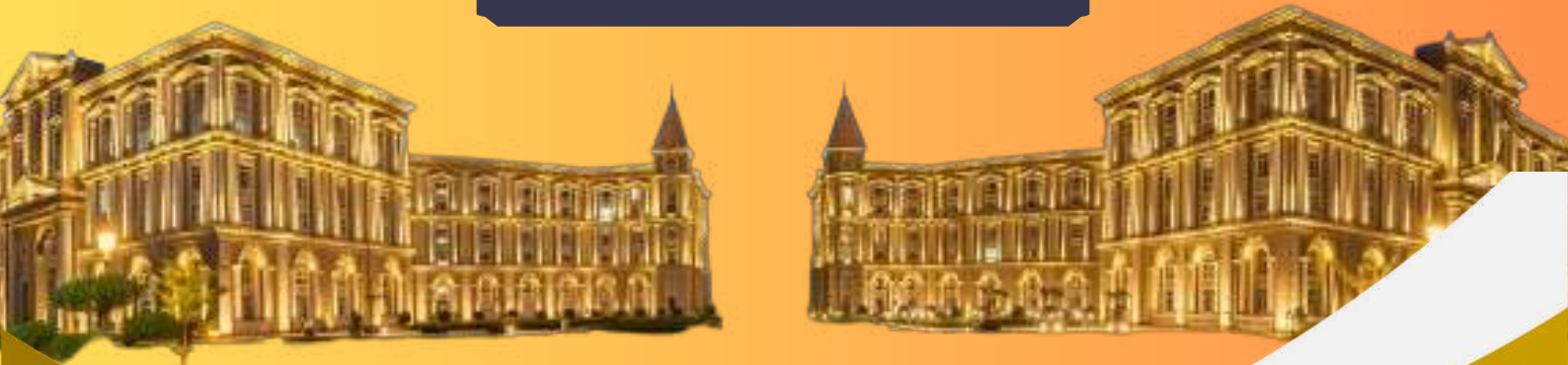
Modern AI systems therefore represent a convergence of data intelligence, generative capabilities, and agentic design principles. By embedding reasoning, memory, and tool usage into a unified framework, these systems effectively bridge the gap between human intent and machine execution. My internship experience reinforced the idea that the future of AI lies beyond prompt engineering alone; it lies in the thoughtful design of intelligent agents that collaborate with humans, automate complex decision-making processes, and scale seamlessly across industries. As artificial intelligence continues to evolve, agent-based systems will play a central role in shaping adaptive, trustworthy, and truly intelligent solutions.





DAYANANDA SAGAR
UNIVERSITY , SCHOOL OF
ENGINEERING DEPARTMENT OF
CSE (AI & ML)

DEPARTMENT ACTIVITIES



One-Day Faculty Development Program-Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting

8th July 2025

The Department of CSE (AI & ML), School of Engineering, Dayananda Sagar University, successfully organized a Faculty Development Program (FDP) on "Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting" on 8th July 2025 at Lecture Hall-2.



The session was delivered by Prof. S.V.K.R. Rajeswari, Assistant Professor, Public Speaker, and Life Coach from the same department. The FDP highlighted the significance of emotional intelligence in both personal and professional domains, with a special focus on conscious parenting and self-awareness.



One-Day Faculty Development Program-Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting

Key highlights of the FDP included:

- Understanding the core components of Emotional Intelligence
- Neuro-Linguistic Programming (NLP) techniques for self-realization
- Reflective parenting practices to raise emotionally intelligent children
- An engaging interactive session with participants

The program was well-received by faculty members across departments and aligned with Sustainable Development Goal 3: Good Health and Well-being. The FDP was coordinated by Prof. Govind Kumar Pandey, with support from our department leadership and university patrons.

The department extends its gratitude to all attendees and looks forward to more such enriching sessions in the future.



“Future of Work” Hackathon

19-20 July 2025

The Department of Computer Science and Engineering (AI & ML) at Dayananda Sagar University, in association with Kroolo and The Generative Beings, successfully hosted the “Future of Work” Hackathon on 19th and 20th July 2025 at its Bengaluru campus. This immersive, in-person event brought together a vibrant community of developers, founders, AI enthusiasts, and innovators for a weekend dedicated to shaping the future through generative AI.

The event began with an inaugural ceremony featuring a welcome address by Dr. Jayavrinda Vrindavanam, Chairperson of CSE (AI & ML), followed by an insightful keynote from Mr. Shashank Singh, CEO of Kroolo, who shared his vision on the transformative potential of AI in the evolving workplace. The inauguration was further enriched by the presence of distinguished guests, including Dr. B.S. Satyanarayana, Vice Chancellor of DSU, who inspired participants with his address.

Over the course of two days, participants tackled real-world challenges, showcasing their creativity and technical skills. The competition offered cash prizes worth INR 1,00,000 along with career opportunities at Kroolo, making it a highly engaging and rewarding experience. The hackathon proved to be a hub of innovation, collaboration, and forward-thinking for aspiring tech leaders.

Platinum Venue Partner

DAYANANDA SAGAR UNIVERSITY

kroolo

THE GENERATIVE BEINGS

19th JULY

Dayananda Sagar University
DEPARTMENT OF CSE (AI and ML)
Presents

FUTURE OF WORK Hackathon

Kroolo x TGB

Saturday 19th-20th July | In-person | Bengaluru

Hackathon: Build the Future of Work

Join us for an electrifying weekend hackathon build and innovate with generative AI!

📅 Date: July 19/20 (Saturday/Sunday)

🏆 Grand Prizes: up to **INR 1,00,000 CASH** + Job opportunity with Kroolo!

👤 Who can participate? Developers, founders, AI enthusiasts & builders!

Scan me!

Company Coordinator
Anuj Dwivedi

Talks by the CEO and AI Engineers of Kroolo

Chief Patrons
Dr. Hemachandra Sagar
Chancellor, DSU
Dr. Premachandra Sagar
Pro-Chancellor, DSU

Patrons
Dr. B.S. Satyanarayana, Vice Chancellor, DSU
Dr. Prakash S, Pro Vice Chancellor, DSU
Dr. Udaya Kumar Reddy, Dean, SOE, DSU
Dr. Puttamadappa, Registrar, DSU

Convenor
Dr. Jayavrinda
Vrindavanam V
Professor & Chairperson
CSE (AI & ML), DSU

Faculty Coordinators

Dr. Vinutha N	Prof. Pradeep Kumar	Prof. Shivanandan Rai	Prof. Arpit Kumar
Dr. Nagarjuna Naik	Prof. Ankita Thakkar	Prof. Pragnya Mishra	Prof. Sarang Mohrir

“Future of Work” Hackathon

19-20 July 2025



“Future of Work” Hackathon

19-20 July 2025



Five-Day Value Added Course

14-18 July 2025

The Department of CSE (AI & ML) at Dayananda Sagar University conducted a 5-Day Value Added Course titled "Foundations of Machine Learning: A Mathematical Approach" from 14-18 July 2025, held online via Zoom and made compulsory for all 5th semester students. The course focused on teaching machine learning from the fundamentals—covering Python programming, mathematical foundations, statistics, and real-world AI applications.

The course featured expert talks and hands-on sessions by a distinguished panel of speakers: Dr. Jayavrinda Vrindavanam, Dr. Bahubali Shiragapur, Dr. Durbadal, Dr. Meenakshi, Dr. Vegi Fernando, Dr. Vinutha, Dr. Abdul Haq Nalband, Dr. Prateek Verma, Dr. Mude Nagarjuna Naik, Dr. Sugandha Saxena, Prof. Ankita Thakkar, Prof. Trupthi Rao, Prof. S.V.K.R. Rajeswari, and Prof. Bhuvana Mohini.

Key topics covered included:

- Supervised Learning and Project Design
- AI/ML using Sensor Data
- Computer Vision and Feature Extraction
- ROC, AUC, and Regularization
- Trends in AI/ML and Cognitive Systems
- ML Applications in Industry and Cybersecurity

Participants were awarded a certificate of participation, and the course empowered them to build ML models, apply mathematical reasoning, and explore real-world industry applications—building confidence to pursue advanced machine learning projects.

 SCHOOL OF ENGINEERING Department of CSE (AI & ML) 5-Day Value Added Course Foundations of Machine Learning: A Mathematical Approach 14 – 18 July 2025 9:30 AM – 4:40 PM Zoom (Online) Compulsory for all 5th Semester Students Convenor Dr. Jayavrinda Vrindavanam Faculty Coordinators Prof. Ankita Thakkar Prof. Bhuvana Mohini	Course Objectives • Learn ML from the ground up from concept to code • Hands-on Python sessions • Math & stats simplified for AI/ML • Real-world projects & applications • Discover latest AI trends Perfect for beginners & intermediates 🎓 Certificate of participation provided 🗣️ Speakers Include: Dr. Jayavrinda Vrindavanam Dr. Bahubali Shiragapur Dr. Durbadal Dr. Meenakshi Dr. Vegi Fernando Dr. Vinutha Dr. Abdul Haq Nalband Dr. Prateek Verma Dr. Mude Nagarjuna Naik Dr. Sugandha Saxena Prof. Ankita Thakkar Prof. Trupthi Rao Prof. S.V.K.R. Rajeswari Prof. Bhuvana Mohini Course Outcomes • Understand the basics of AI and Machine Learning • Use Python libraries to build simple ML models • Apply math and stats concepts in real ML problems • Explore how ML is used in industry and daily life • Build confidence to take up advanced ML projects	14 July 9:30 – 9:50 AM: Inauguration & Intro 9:50 – 10:30 AM: Introduction to AI & ML 10:30 – 11:30 AM: Evolution of AI and ML 11:40 – 12:40 PM: Python Libraries – Hands-on 1:30-4:40 PM: Python Libraries – Hands-on (contd.) 15 July 9:30 – 11:30 AM: Mathematics for AI and ML 11:40 – 12:40 PM: Statistics for AI and ML 1:30 – 3:00 PM: Statistics for AI and ML (contd.) 3:10 – 4:40 PM: Supervised Machine Learning - Hands on 16 July 9:30 – 10:15 AM: ML Project Design 10:15 – 11:30 AM: ML Applications using Sensor Data 11:40 – 12:30 PM: Introduction to Computer Vision 2:00 – 3:00 PM: Feature Extraction 3:10 – 4:40 PM: Pattern Recognition 17 July 9:30 – 11:00 AM: ML Models – Hands-on 11:10 – 12:40 PM: ROC, AUC, Regularization 1:30 – 3:00 PM: Trends in AI/ML 3:10 – 4:40 PM: Cognitive Systems 18 July 9:30 – 11:30 AM: ML in Industry 11:40 – 1:10 PM: AI/ML Advances – Hands-on 2:00 – 2:40 PM: ML for Cybersecurity 2:40 – 3:00 PM: End Session Remarks
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MOU Signing with Wadhvani Foundation

7 August 2025

On 07/08/2025, the Department of Computer Science and Engineering (AI & ML) at Dayananda Sagar University (DSU), Bengaluru, entered into a strategic partnership with the Wadhvani Foundation. This collaboration aims to foster innovation and excellence in the field of Artificial Intelligence (AI) and Machine Learning (ML) through joint initiatives, research, and development projects.



The Wadhvani Foundation, known for its commitment to advancing technology and entrepreneurship, will work closely with DSU to enhance the academic and practical aspects of AI and ML education. The partnership is expected to lead to the development of cutting-edge solutions and contribute significantly to the technological landscape.



Faculty Development Programme on “Empowering Educators for Transformational Engineering Education”

5 August 2025

The School of Engineering is organized a Faculty Development Program titled “Empowering Educators for Transformational Engineering Education” from 30th July to 5th August 2025. Faculty members from Department of CSE (AI & ML), Dayananda Sagar University participated in this initiative aimed at enhancing practices in Outcome-Based Education in line with the latest NBA guidelines. Key sessions covered curriculum design, CO-PO-PSO mapping, innovative teaching methods, and outcome-aligned assessment. In addition to OBE-focused sessions, the FDP included strategic workshops on:

i. Highlights:

- Curriculum design for OBE
- CO-PO-PSO mapping and attainment
- Innovative teaching & assessment strategies
- Reflective teaching and continuous improvement

ii. Special Workshops:

- Social Media for Academic Engagement & DSU Branding
- Faculty Mentoring & Wellness
- Transformational Education Models (aligned with NEP 2020)

The FDP supported DSU’s broader vision of institutional transformation and academic excellence. Participation is mandatory for all faculty members.

MoU Signing Ceremony with Provident Housing Limited

13 August 2025

The Department of CSE (AI & ML), School of Engineering, Dayananda Sagar University (DSU), has signed an MoU with Provident Housing Limited (a Puravankara Group company) to strengthen industry-academia collaboration. The partnership will create opportunities for students and faculty to apply AI/ML to real-world challenges in housing, urban development, and sustainability, while giving Provident access to innovative technology solutions.

The collaboration will include internships for students, joint AI/ML proof-of-concepts and prototypes, training programs, live industry projects, and guest lectures.

The MoU was signed in the presence of our Hon'ble Vice Chancellor Prof. (Dr.) Bukinakere S. Satyanarayana, Pro Vice Chancellor Dr. Prakash Sheelvanthmath, Dean of Engineering Dr. Udaya Kumar Reddy, Chairperson Dr. Jayavrinda Vrindavanam, and department heads. The agreement was signed by our Registrar Dr. Puttamadappa C with Provident Housing representatives, with CEO Mr. Mallana Sasalu joining virtually.



Swachhata Pakhwada 2025 - Cleanathon

18 September 2025

As part of the UGC's Swachhata Pakhwada 2025 initiative, the AI/ML Department, SOE, organized a Cleanathon on 18th September 2025 at the University's sports complex (Cricket Stadium, Badminton Court, and Volleyball Court). The drive was coordinated by Dr. Sumit Kr. Yadav. The drive, conducted through the NSS unit, saw the active participation of 191 members including faculty, NSS volunteers, and second- and third-year students



The event focused on promoting cleanliness, hygiene, and sustainable practices while instilling responsibility, teamwork, and discipline among students. Divided into three teams, participants cleaned litter, segregated waste, and improved the usability of sports facilities. Posters and awareness campaigns further highlighted the importance of Swachh Bharat Abhiyan values.



The initiative not only enhanced the environment of the sports complex but also set an inspiring example of collective responsibility and campus sustainability.

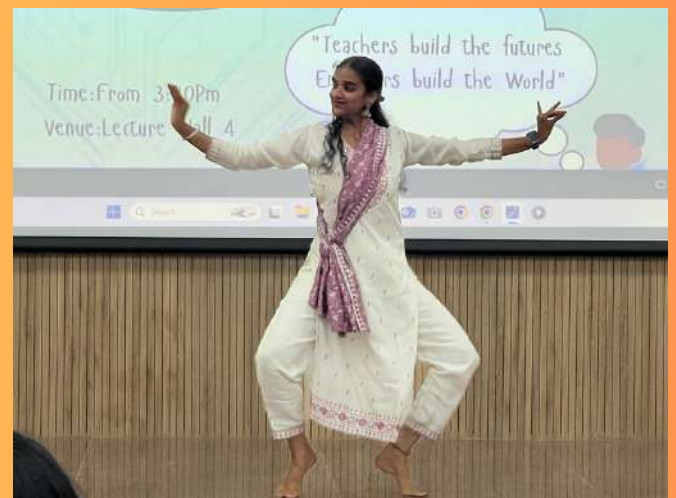
Teachers and Engineers Day Celebration

15 September 2025

Teachers' Day and Engineers' Day were celebrated on 15 September to honor the dedication and contribution of our faculty members. The event highlighted the role of teachers in shaping minds and engineers in building the future.

As part of the celebration, faculty members were felicitated for their outstanding research publications and academic achievements. Their hard work, innovation, and commitment to knowledge creation were recognized and appreciated by the university leadership.

The program served as a moment of pride, inspiration, and gratitude for the entire academic community.



MoU Signing Ceremony with Yotta Yotta Data Services Pvt. Ltd.

26 September 2025

This collaboration will support joint research, industry projects, workshops, training programs, and shared resources through access to Yotta's Cloud and AI Labs. The partnership aims to connect academia with industry and strengthen innovation, research, and student skill development.

The MoU was signed in the presence of our Hon'ble Vice Chancellor Prof. (Dr.) Bukinakere S. Satyanarayana, Pro Vice Chancellor Dr. Prakash Sheelvanthmath, Dean of Engineering Dr. Udaya Kumar Reddy, Chairperson Dr. Jayavrinda Vrindavanam, and department heads. The agreement was signed by our Registrar Dr. Puttamadappa C with representatives from Yotta Data Services Pvt. Ltd. About YOTTA Lab:

Backed by the Hiranandani Group, YOTTA Lab develops large-scale data center parks in Powai, Mumbai, offering flexible, world-class infrastructure and managed services for advanced computing needs.



Onam & Durga Puja Celebration

30 September 2025

The campus came alive on 30 September as Onam and Durga Puja were celebrated with great joy and cultural spirit. Students and faculty took part in traditional activities, decorations, and festive programs that reflected the rich heritage of India.

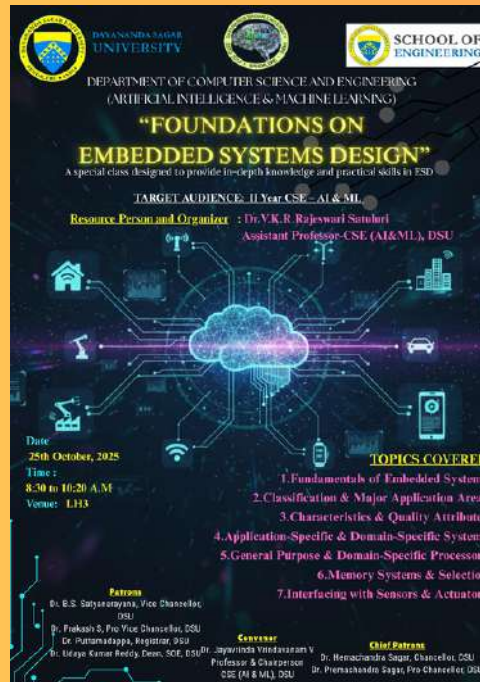
The celebrations promoted unity, respect for diversity, and a sense of togetherness across the university community, making the day both meaningful and memorable.



Foundations on Embedded Systems Design

25 October 2025

The Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), SOE, organized a special class, “Foundations on Embedded Systems Design”, on 25th October, 2025. The session was organized and delivered by Dr. V.K.R.Rajeswari Satuluri, Assistant Professor, CSE (AI&ML).



The class, held in LH3, was specifically designed for and attended by II Year CSE - AI & ML students. The event focused on providing students with in-depth knowledge and practical skills in Embedded Systems Design (ESD). The session covered a comprehensive range of topics, including the fundamentals of embedded systems, their classification and major application areas, characteristics and quality attributes, and application-specific processors.



The class also detailed general-purpose and domain-specific processors, memory systems, and selection, and concluded with the principles of interfacing with sensors and actuators. The initiative successfully provided students with a strong foundational understanding of embedded systems, enhancing their core engineering knowledge for future applications.

Malaysia Visit for Collaboration and Workshop Conduction- INTI University

19 November 2025

The visit to INTI International University, Malaysia, on November 19, 2025, was an international outreach initiative by the Department of Computer Science & Engineering -Artificial Intelligence and Machine Learning of the School of Engineering at Dayananda Sagar University (DSU). The primary purpose was to explore academic collaborations, conduct a faculty workshop, and strengthen global academic partnerships, aligning with SDG 4 (Quality Education), SDG 9 (Industry, Innovation and Infrastructure), and SDG 17 (Partnership for the goals). The DSU Delegation members present included Dr. Puttamadappa, Dr. Supriya Mathew, Dr. Udaya Kumar Reddy, Dr. Jayavrinda Vrindavanam, Dr. Princy Randhawa who were met by INTI Officials, including Dr. Malathy, Professor Dr. Asokan Vasudevan, and Mr. Kumaresan Krishnasamy. The event included a formal welcome, presentations on both universities, a lab tour, and discussions on potential joint academic events, research, credit transfer, and student exchange/internship opportunities. The visit culminated in a post-lunch workshop titled “How to Boost Academic Research Using AnswerThis”, delivered by the DSU team to approximately 80 participants (students, faculty, and research scholars), which included interactive demonstrations and a quiz, resulting in a request from INTI for a follow-up online session in January’ 2026.



Malaysia Visit for MoU Signing Ceremony and Workshop Conduction- MAHSA University

20-21 November 2025

The two-day visit to MAHSA University, Malaysia, on November 20-21, 2025, was a significant international collaboration initiative by the Department of Computer Science & Engineering (Artificial Intelligence and Machine Learning) of the School of Engineering at Dayananda Sagar University (DSU). DSU served as the Co-Academic Partner for the MAHSA International Conference on Industrial Revolution Information & Communication Technology (Mi-IRICT-2025). The primary purpose was to explore academic collaborations, conduct a pre-conference workshop, participate in the conference, and formalize the partnership through an MOU Signing Ceremony, aligning with SDG 4 (Quality Education), SDG 9 (Industry, Innovation and Infrastructure), and SDG 17 (Partnership for the goals). The DSU Delegation members present included Dr. Puttamadappa, Dr. Supriya Mathew, Dr. Udaya Kumar Reddy, Dr. Jayavrinda Vrindavanam, Dr. Princy Randhawa, who were met by MAHSA Officials, including Prof. Emeritus Dato' Ikram Ismail (Vice Chancellor), Professor Emeritus Dr. Rosnah Binti Mohd Zain (Deputy Vice-Chancellor), Audrey Yong, Ts. Vickneswari Durairajah, Ir. Ts. Suria Prakash Vijayasuria, Dr. Sadiq Batcha Abdul Rahim, Kasirajan Kasipandian, and Shanthi Muniandy. The event included a pre-conference workshop titled "How to Boost Academic Research using AnswerThis" delivered by the DSU team on November 20th, attended by around 30 participants, the Keynote Address by Dr. Udaya Kumar Reddy at the Mi-IRICT-2025 inaugural session, student paper presentations, a lab tour, and the successful MOU signing ceremony that formalized collaboration in joint research, student/faculty exchange, and academic events.



Malaysia Visit for MoU Signing Ceremony and Workshop Conduction- MAHSA University

20-21 November 2025



Malaysia Visit for Collaboration and Workshop Conduction- University of Malaya

22 November 2025

The visit to the University of Malaya (UM), Kuala Lumpur, on November 22, 2025, was part of the ongoing international academic initiative by the Department of Computer Science & Engineering (Artificial Intelligence and Machine Learning) of the School of Engineering at Dayananda Sagar University (DSU). The primary objectives were to understand UM's research ecosystem, explore collaboration in engineering and AI/ML, and initiate the MOU process for long-term partnership, aligning with SDG 4 (Quality Education), SDG 9 (Industry, Innovation and Infrastructure), and SDG 17 (Partnership for the goals). The DSU Delegation members present included Dr. Udaya Kumar Reddy, Dr. Jayavrinda Vrindavanam, Dr. Princy Randhawa who were met by UM Official Professor Hari Krishnan Ramiah. The visit included a warm welcome, a detailed lab tour showcasing innovation and computational research facilities, productive discussions on joint events, student exchange, and research proposals, with UM expressing strong interest in initiating the MOU process and connecting DSU with their International Affairs and Computer Science teams. The engagement featured a Workshop on "How to Boost Academic Research using AnswerThis", delivered by the DSU team to around 25 participants (students and research scholars), which focused on improving research skills and was well-received.



Malaysia Visit for Collaboration- Sunway University

21 November 2025

The visit to Sunway University, Malaysia, on November 21, 2025, was an initiative by the Department of Computer Science & Engineering (Artificial Intelligence and Machine Learning) of the School of Engineering at Dayananda Sagar University (DSU) to expand international academic partnerships and explore collaboration opportunities in research, innovation, and student mobility. The primary objectives included understanding Sunway's research ecosystem, discussing joint research projects, student credit exchange, and exploring research-based project opportunities with stipends for DSU students. The engagement aimed to align with SDG 4 (Quality Education), SDG 9 (Industry, Innovation and Infrastructure), and SDG 17 (Partnership for the goals). The DSU Delegation members present were Dr. Jayavrinda Vrindavanam, Dr. Princy Randhawa who were welcomed by Dr. Kalidasan Balasubramaniam, Lecturer from the Faculty of Engineering and Technology, Sunway University. The visit included a discussion on Sunway's strong QS ranking, a tour of their innovation labs and research facilities, an explanation of the stipend opportunities for research students (Master's research assistantship of 3,000 Ringgit/month for one year and 10,000 Ringgit/year for PhD students), and an agreement to start joint events immediately, such as workshops and seminars.



Faculty Catalyze Innovation with Research Seed Grants

Dr. Jayavrinda Vrindavanam, Professor & Chairperson, Department of CSE (AI&ML), School of Engineering, Dayananda Sagar University (DSU), along with Co-Principal Investigators Prof. Pradeep Kumar K Assistant Professor, Department of CSE (AI&ML), School of Engineering, Dayananda Sagar University (DSU), and Dr. Kiran Kumar D, was awarded a Seed Money Grant of ₹3,00,000/- (INR). The grant was sanctioned for their project titled "Detection of Cardiovascular Disease using 4 ECG leads signals by applying machine learning Model".

Dr. Bahubali Shiragapur, Professor, and Dr. Vinutha N, Associate Professor, from the Department of AI&ML, School of Engineering (SOE), Dayananda Sagar University (DSU), were awarded a Seed Money Grant of ₹4,00,000/- (INR) in August 2025. The grant was sanctioned for their innovative research project titled "Neurotechnology Meets Education: Advancing Multiple Intelligences with BCIs". Dr. Bahubali Shiragapur is the Principal Investigator and Dr. Vinutha N is the Co-Principal Investigator.

DashHack: Data Visualization Challenge 2025

01 December 2025

The School of Engineering, Dayananda Sagar University, successfully organized DashHack - Data Visualization Challenge, an intellectually stimulating event conducted by the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning) on 1st December 2025. The event was held at Lecture Hall-2, Ground Floor, School of Engineering, from 9:00 a.m. to 1:00 p.m., and witnessed enthusiastic participation from students who showcased their analytical thinking, creativity, and technical proficiency in transforming complex datasets into meaningful visual insights. The event was conducted under the esteemed guidance of our Chief Patrons: Dr. D. Hemachandra Sagar, Chancellor, DSU, Dr. D. Premachandra Sagar, Pro-Chancellor, DSU and the support of our Patrons: Dr. B. Satyanarayana, Vice Chancellor, DSU, Dr. Prakash S, Pro-Vice Chancellor, DSU, Dr. E. N. Ganesh, Pro-Vice Chancellor, DSU, Dr. C. Puttamadappa, Registrar, DSU, Dr. Udaya Kumar Reddy, Dean - School of Engineering, DSU

The event was convened by Dr. Jayavrinda Vrindavanam V, Chairperson, CSE (AIML), whose vision and leadership played a pivotal role in the successful execution of the challenge. The program was efficiently coordinated by the Faculty Coordinators: Prof. Trupthi Rao, CSE (AIML), Dr. Princy Randhawa, CSE (AIML), Prof. Bhuvana Mohini, CSE (AIML). DashHack provided a competitive platform for students to apply data visualization tools and techniques to real-world datasets. Participants demonstrated innovation in dashboard design, clarity in data storytelling, and analytical depth, aligning with industry-oriented practices in data analytics and AI.



Talk on “Be an Opportunist - Transforming Challenges into Opportunities”

04 December 2025

The Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), School of Engineering, Dayananda Sagar University, organized an inspiring guest talk titled “Be an Opportunist - Transforming Challenges into Opportunities” on 4th December 2025, from 8:45 a.m. to 9:45 a.m., at Lecture Hall-3. The session was delivered by Mr. Arham Asif Syed, a distinguished alumnus of the CSE (AIML) Department (Batch 2020-2024). He is a Master’s graduate in Artificial Intelligence from the University of Technology Sydney (UTS), Australia, and the Founder of Sydar AI and Day Zero Labs, currently working as an AI Researcher at Marsden. The program was convened by Dr. Jayavrinda Vrindavanam V, Chairperson, CSE (AIML), DSU, whose leadership and vision enabled the smooth conduct of the event. The session was effectively coordinated by the Faculty Coordinators: Dr. Vinutha N, Associate Professor, CSE (AIML), DSU, Prof. Pradeep Kumar K, Assistant Professor, CSE (AIML), DSU. Institutional coordination was supported by: Mr. Vijay Kumar S, Director - Training & Corporate Relations, Ms. Arathi Gudad, Manager - Training & Placement. During the talk, Mr. Arham Asif Syed shared his academic journey, industry experiences, and entrepreneurial insights, emphasizing the importance of resilience, adaptability, and proactive thinking in transforming challenges into meaningful opportunities. He motivated students to embrace failures as learning experiences and encouraged them to leverage emerging technologies such as Artificial Intelligence for innovation and societal impact. The session was highly engaging and motivational, leaving students inspired to pursue excellence in academics, research, and entrepreneurship. The event successfully strengthened alumni-student interaction and reinforced the department’s commitment to holistic student development and career readiness.





DAYANANDA SAGAR
UNIVERSITY , SCHOOL OF
ENGINEERING DEPARTMENT OF
CSE (AI & ML)

STUDENTS: CERTIFICATIONS AND OTHER ACHIVEMENTS



Student Activities & Achievements

Kolisetty Dhanush (ENG21AM0058), Kalla Jaya Karthik (ENG21AM0021), Matam Mahesh (ENG21AM0070)

8th semester students from Dept. of CSE (AI&ML) has participated & successfully presented the paper entitled “A Real-Time IoT and Machine Learning-based Smart Insole System for Early Detection and Prevention of Diabetic Foot Ulcers at the 7th International Conference on Inventive Material Science and Applications (ICIMA-2025) held from 28th-30th, May 2025 at Muthayammal engineering college, Rasipuram, Tamil Nadu, India.



Ajeeb Sagar (ENG22AM0071), Ujjwal Jaiswal (ENG22AM0197), Gaurav Kumavat (ENG22AM0092), Students of 6th semester, Dept. of CSE (AI&ML) has published a conference title “Machine Learning and Artificial Intelligence for Predictive Modeling in Antimicrobial Resistance Data sets, Challenges, and Future Directions.” in the 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES), 2025.

3 GOOD HEALTH AND WELL-BEING

PAPER PUBLISHED

Title Of Paper: Machine Learning and Artificial Intelligence for Predictive Modeling in Antimicrobial Resistance Data Sets, Challenges, and Future Directions

Conference: 2025 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES)

Index: SCOPUS

Date of publication: 2025-06-02

DOI: [10.1109/ICSSSES64899.2025.11009316](https://doi.org/10.1109/ICSSSES64899.2025.11009316)

Gaurav Kumavat
ENG22AM0092

Dr. Shreyas Rajendra
Hole

Ajeeb Sagar
ENG22AM0071

Ujjwal Jaiswal
ENG22AM0197

Congratulations

#ResearchAtDSU

Student Activities & Achievements

Manyashree D, a 3rd-year student of CSE (AIML), recently attended the prestigious Bootcamp on “Fundamentals of Drone Systems and AI/ML for Drone Vision”, organized by the Center for Drone Applications, IIT Goa, and funded by #MeitY, Govt. of India.

During this intensive program, she gained valuable insights into:

- ◆ Drone Fundamentals - flight dynamics, control systems, and UAV architecture.
- ◆ AI/ML Applications in Drones - computer vision for object detection, navigation, and real-time decision-making.
- ◆ Drone Ecosystem & Emerging Use Cases - agriculture, disaster management, surveillance, and delivery systems.
- ◆ Hands-on Knowledge - leveraging data-driven innovation to enhance unmanned aircraft systems.

This experience has not only strengthened her technical foundation but also ignited her passion to explore innovative AI-driven solutions for drone-related projects.



Student Activities & Achievements

Nandeesh N B Vade-Gopal, student of section 5-B, Computer Science and Engineering -AI & ML , has received a Certificate of Achievement for securing Third place in the "AI in Healthcare" domain at the UDAYA 1.0 Intra-DSI Hackathon. The event was organized by the Department of Computer Science & Design, Dayananda Sagar College of Engineering, in association with DERBI Foundation, Sagar Hospitals, and IEEE-DSCE Students Branch, and was held on 27th September 2025.



Mr. Nandeesh NB (ENG23AM0047), Student, 5th Semester, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), along with his team, has secured the Local Award Winner recognition in the 2025 NASA International Space Apps Challenge held at Dayananda Sagar University on 4th and 5th October, 2025.



Mr. Nandeesh NB (ENG23AM0047), Student, 5th Semester, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), along with his team, has secured the Runner Up position in Hackverse, a 24-hour hackathon (AI&ML theme) held during the TechFusion 2025 inter-college technical fest, organized by Dayananda Sagar Academy of Technology & Management (DSATM), Bengaluru, on 14th and 15th October, 2025.



Student Activities & Achievements

IIIrd year Students from the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), **Saumyaa Priyadarshinee, Sonika D, Vignesh B S, and Vishruth Janardhan**, successfully presented their project titled “‘HEALTHCAREBOT’: A SMART PATIENT TRIAGE & MEDICAL FREQUENTLY ANSWERED QUESTIONS (FAQ) ASSISTANT” at the IEEE Mini Project Symposium 2025.



The project was guided by Dr. V.K.R.Rajeswari Satuluri, Assistant Professor, CSE (AI&ML). The symposium was organized by the IEEE CEDA Bangalore Chapter in association with the IEEE Bangalore Section and IEEE Mysore Subsection, and hosted at ATME College of Engineering, Mysuru, on 25th October 2025.

IInd year Students from the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), **Yashwanth K, Racahana B S, Shravansingh, and Maanya Shree S**, successfully presented their project titled “SATELLITE-DRIVEN FORECASTING OF INTEGRATED AIR QUALITY AND WEATHER HAZARDS IN URBAN CENTERS” at the IEEE Mini Project Symposium 2025.



The project was guided by Dr. V.K.R.Rajeswari Satuluri, Assistant Professor, CSE (AI&ML). The symposium was organized by the IEEE CEDA Bangalore Chapter in association with the IEEE Bangalore Section and IEEE Mysore Subsection, and hosted at ATME College of Engineering, Mysuru, on 25th October 2025.

Student Activities & Achievements

Ms. Manyashree D, 5-B Section, student of the Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), was the student representative presenting DSU's community engagement initiatives at the Best Practices Sharing of Community Engagement Initiatives event. The event was jointly organized by the Karnataka State NSS Cell and Azim Premji University, Bengaluru on 6 October 2025 at the Azim Premji University campus. DSU, one of 11 shortlisted universities, showcased its diverse range of initiatives, including NSS activities, Unnat Bharat Abhiyan (UBA) projects, social awareness programs, rural development activities, health and education campaigns, and youth-led service initiatives. Her presentation received high appreciation for its clarity, organization, innovation, and the strong social commitment reflected by DSU's NSS unit and student volunteers.



Chethan K. Murthy, 7-A Section, student of the Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU) presented the paper titled “A Hybrid Spiking Convolutional Neural Network for Computationally Efficient Pathology Image Classification” at the 2nd IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies 2025, held on 07-08 November 2025 at ABV-IIITM Gwalior.



Student Activities & Achievements

R L JAYESH and **RAJATH U**, 5-C Section, students of the Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), participated in TechnoCognition '25, a 36-hour international protothon at DSU. The event challenged students to build real working prototypes in domains such as IoT, robotics, aerospace, circuits, and AI. It served as a fast-paced innovation sprint for turning ideas into impactful tech solutions, offering ₹3,00,000+ in prizes and funding up to ₹10 lakhs.



Student Activities & Achievements

Ms. Manyashree D, 5-B Section, student of the Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), successfully participated in the Online Quiz on “Viksit Bharat Young Leaders Dialogue (VBYLD) 2026”, organized by the Ministry of Youth Affairs & Sports, Government of India. The quiz was conducted through the MYBharat platform on 11 October 2025. Her active participation reflects her awareness of national development initiatives and youth leadership programs aimed at building a Viksit Bharat. The achievement highlights her enthusiasm, commitment to civic engagement, and alignment with the vision of empowering young leaders to contribute meaningfully to nation-building.

She also successfully participated in the Sardar 150 Young Leaders Program, an initiative supported by the Ministry of Youth Affairs & Sports, Government of India. Through her active involvement in the program, she contributed meaningfully toward the vision of Ek Bharat - Aatmanirbhar Bharat, demonstrating leadership qualities, national awareness, and a strong sense of social responsibility. Her participation reflects a commitment to youth-led nation-building initiatives and aligns with the university’s emphasis on holistic student development and civic engagement.



Student Activities & Achievements

Dayananda Sagar University (DSU) proudly marks the active participation of its NSS volunteers in the YUVA AAPDA MITRA Training Camp 2025, conducted from 13th to 19th October 2025 at the Youth Training Centre, Kumbalgodu, Bengaluru. The camp was organized by the State Disaster Management Authority (SDMA) under the aegis of the National Disaster Management Authority (NDMA), Ministry of Home Affairs, Government of India. Among the participants, third-year students from the Department of Artificial Intelligence & Machine Learning (AI & ML), School of Engineering (SOE), Manyashree D (USN: ENG23AM0043), Nikhil K (USN: ENG23AM0162) represented DSU with dedication and enthusiasm. They participated in this extraordinary camp along with a few other students from different schools of Dayananda Sagar University and students from various colleges across the state. The week-long residential training program focused on disaster preparedness, rescue operations, and emergency response through a blend of theoretical sessions and hands-on practical training. Participants received intensive instruction in fire safety, river rescue techniques, rope evacuation methods, CPR, first aid, and disaster response strategies, led by experienced professionals from NDMA, SDMA, and Yenepoya University.

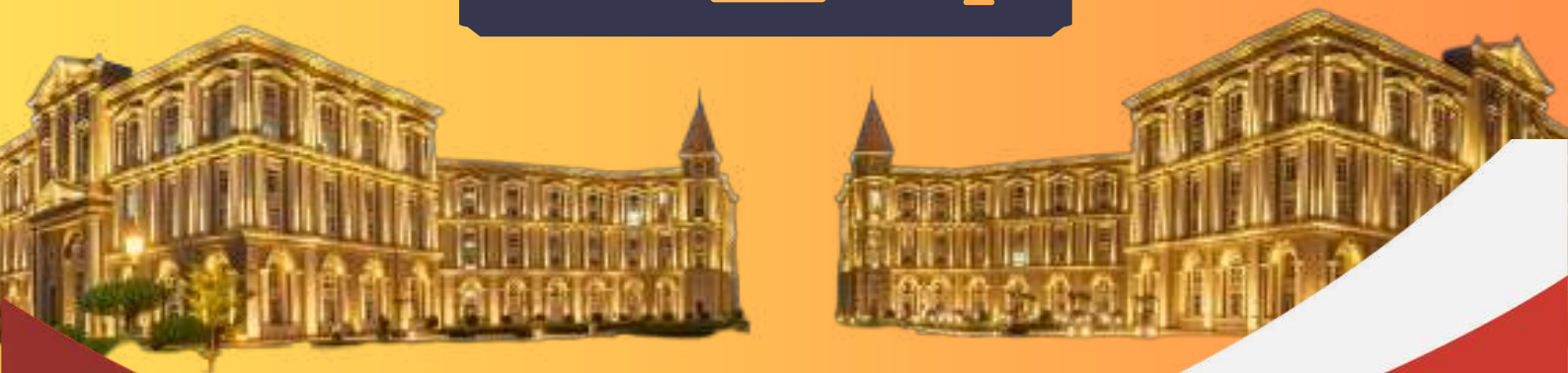
Beyond technical skills, the camp emphasized leadership, teamwork, discipline, and social responsibility. Simulated disaster scenarios, group activities, skits, and cultural evenings provided participants with opportunities to apply their learning while fostering unity and creativity among students from diverse institutions. The program concluded with a valedictory ceremony, where participants were awarded certificates of completion in recognition of their active involvement and commitment to community service.





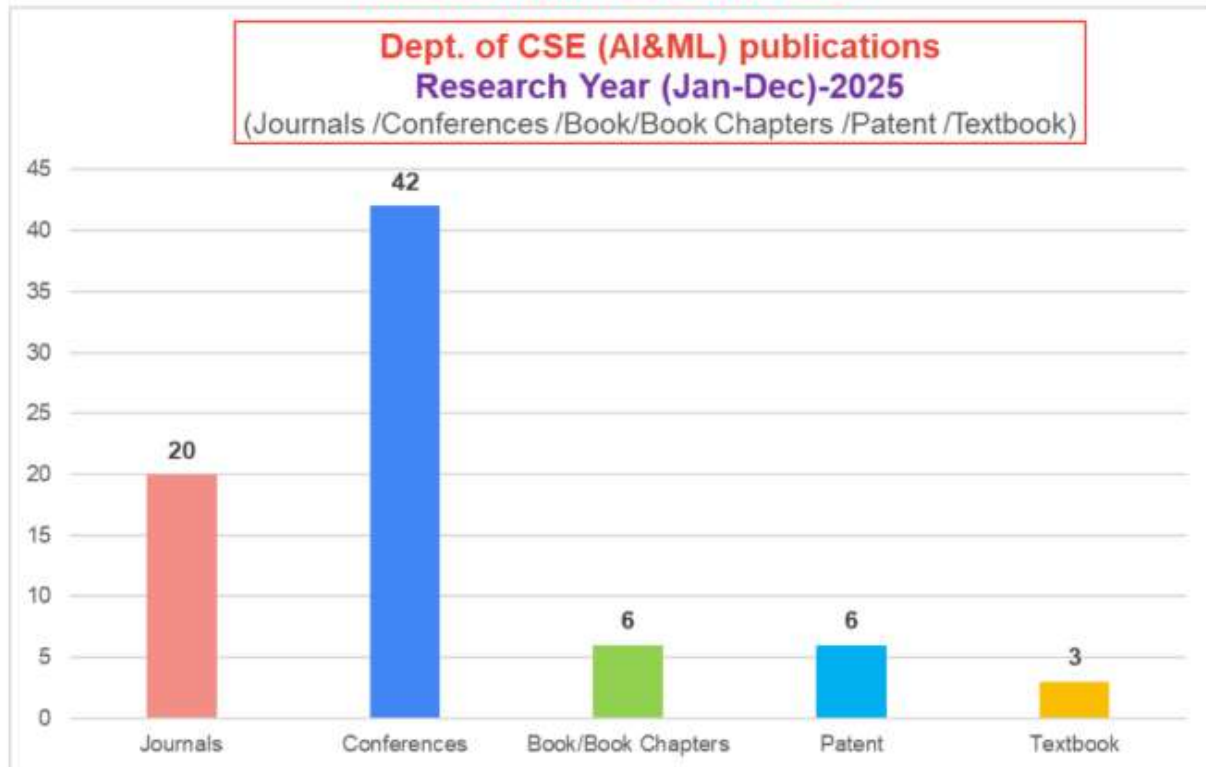
DAYANANDA SAGAR
UNIVERSITY , SCHOOL OF
ENGINEERING DEPARTMENT OF
CSE (AI & ML)

FACULTIES: PUBLICATIONS, CERTIFICATIONS, AND OTHER ACHIEVEMENTS



Faculty Publications

Research Year-2025 (Jan-Dec)



Journal Details

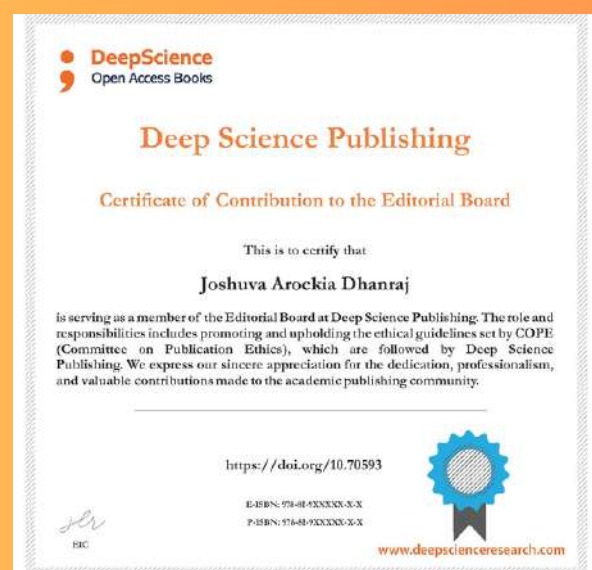


Faculty Activities & Achievements

Dr. M Lakshmanan, Dr. Mude Nagarjuna Naik, Prof. R Sriramkumar, Assistant Professors, Dept. of CSE (AI&ML) published the patent titled "Hybrid Quantum-Resistant Multi-Layer Encryption (HQRMLE) System for Health Records using Blockchain Storage and Method Thereof" on 6th June 2025.

Patent Title	Hybrid Quantum-Resistant Multi-Layer Encryption (HQRMLE) System for Health Records using Blockchain Storage and Method thereof
Application No.	202541049497 A
Publication Date	6 th June 2025
Published In	The Patent Office Journal No. 23/2025
Inventors	M Lakshmanan Mude Nagarjuna Naik R Sriramkumar
Affiliation	Dayananda Sagar University

Dr. Joshuva Arockia Dhanraj, Associate Professor, Dept. of CSE (AI&ML) received the Certificate for serving as a member of the Editorial Board at Deep Science Publishing. The role and responsibilities include promoting and upholding the ethical guidelines set by COPE (Committee on Publication Ethics), which are followed by Deep Science Publishing. We express our sincere appreciation for the dedication, professionalism, and valuable contributions made to the academic publishing community.



Dr. Vinutha N, and Dr. Jayavrinda V, Associate Professor and Professor, Dept. of CSE (AI&ML) published a conference paper titled "NeuroTransformer: Transformer Model for Motor Imagery Classification", at the 5th International Conference on Data Science and Applications (ICDSA), 3.1 2024.

https://link.springer.com/chapter/10.1007/978-981-96-1188-1_24

Dr. Vinutha N, Associate Professor, Dept. of CSE (AI&ML) published a conference paper titled "Dynamic Slice Selection based 3D Brain tumour Volumetric Segmentation", at the 5th International Conference on Data Science and Applications (ICDSA), 3.12024.

https://link.springer.com/chapter/10.1007/978-981-96-1188-1_16

Faculty Activities & Achievements

Prof. Ankitha Takkar, Assistant Professor, Dept. of CSE (AI&ML) received the certificate in recognition of their ability to effectively utilize the knowledge and skills acquired during the Wadhvani Faculty Development Program to facilitate the Wadhvani Foundation's Ignite program and its variants. This achievement reflects their practical engagement with and commitment to implementing entrepreneurship programs to their students.



Dr. Lakshmanan M & Prof. Rakshita R, Assistant Professors, Dept. of CSE (AI&ML) has participated & successfully presented the paper entitled "A Real-Time IoT and Machine Learning-based Smart Insole System for Early Detection and Prevention of Diabetic Foot Ulcers" at the 7th International Conference on Inventive Material Science and Applications (ICIMA-2025) held from 28th-30th, May 2025 at Muthayammal engineering college, Rasipuram, Tamil Nadu, India.



Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has presented paper entitled "Adaptive Multi Stream Modified CNN-LSTM Based Real-Time Sign Language Translation with 3D Pose Estimation and Temporal Modelling" in 2025 International Conference on Computing Technologies (ICOCT) Organized by Jyothy Institute of Technology, Bengaluru.



Faculty Activities & Achievements

Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has successfully organized a special session on the topic “Recent Trends and challenges in Artificial Intelligence, Biomedical Science and Healthcare Informatics for Society 5.0 using New Age Technologies” for the First International Conference on Artificial Intelligence, Computation, Communication and Network Security (AICCoNS 2025) held in the University of Wollongong in Dubai, 5-6 June 2025. We sincerely appreciate his support and commitment to the academic and research community.



Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has published a conference title “Machine Learning and Artificial Intelligence for Predictive Modeling in Antimicrobial Resistance Data sets, Challenges, and Future Directions.” in the 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES), 2025.



Prof. Trupthi Rao, Assistant Professor, Department of CSE(AI&ML) has received the certificate has presented her research paper entitled Advanced Risk Prioritization in Supply Chain Management Using Fuzzy AHP and TOPSIS in ICETI4T 2025, organized by SIES Graduate School of Technology, Nerul, Navi Mumbai held on 6th & 7th June 2025.



Prof. Trupthi Rao, Assistant Professor, Department of CSE(AI&ML) has received the certificate Recognizing completion of the Microsoft approved training: Microsoft Learn for Educators, AI-900: Microsoft Azure AI Fundamentals, and AI-102: Designing and Implementing a Microsoft Azure AI Solution (9.5 hours).



Faculty Activities & Achievements

Prof. Trupthi Rao, Assistant Professor, Department of CSE (Artificial Intelligence and Machine Learning) has presented 3 papers in the "Annual International Conference on Data Science, Machine Learning and Blockchain Technology (AICDMB 2025)" organized by Vidyavardhaka College of Engineering, Mysuru on 27th and 28th June 2025.

Paper 1: Recommendation of Movies using Fuzzy AHP and TOPSIS

Paper 2: Weather Predictions using Fuzzy TOPSIS and Fuzzy AHP

Paper 3: Financial Risk Assessment of an Individual using Fuzzy Logic



Dr. Vinutha N, Associate Professor, Department of CSE(AI&ML) was awarded a Certificate of Appreciation by the College of Pharmaceutical Sciences, School of Health Sciences, Dayananda Sagar University, Harohalli, Bengaluru. This recognition was given for her valuable contribution as a resource person in the Faculty Development Programme titled "Applications of AI/ML in Pharmaceutical Teaching and Research." The FDP was conducted at the college from 24th to 28th June 2025, acknowledging her efforts in advancing knowledge at the intersection of artificial intelligence, machine learning, and pharmaceutical sciences.



Dr. S. Bahubali, Associate Professor, Department of CSE(AI&ML) was awarded a Certificate of Appreciation by the College of Pharmaceutical Sciences, School of Health Sciences, Dayananda Sagar University, Harohalli, Bengaluru. This certificate acknowledges his contribution as a resource person in the Faculty Development Programme on "Applications of AI/ML in Pharmaceutical Teaching and Research," held from 24th to 28th June 2025.



Faculty Activities & Achievements

Prof. S.V.K.R.Rajeswari, was awarded a Certificate of Appreciation by the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), School of Engineering, Dayananda Sagar University. She served as a distinguished speaker in the Faculty Development Program titled “Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting,” held on 8th July 2025. Her session was highly appreciated for its insightful and engaging content, focusing on emotional intelligence and conscious parenting.



Prof. Govind Kumar Pandey, Assistant Professor, Dept. of CSE (AI&ML) has received a Certificate of Appreciation from the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), School of Engineering, Dayananda Sagar University, for his outstanding contribution as an organizer of the Faculty Development Program titled “Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting” held on 8th July 2025.



Prof. Bhuvana Mohini T N, was awarded a Certificate of Appreciation by the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), School of Engineering, Dayananda Sagar University, for her commendable role as an organizer in the Faculty Development Program titled “Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting” held on 8th July 2025. Her active efforts, dedication, and insightful coordination played a vital role in the smooth execution and overall success of the event.



Faculty Activities & Achievements

Prof. Trupthi Rao, Assistant Professor, Dept. of CSE (AI&ML) has actively participated in the Faculty Development Program titled “Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting” held on 8th July 2025 at Dayananda Sagar University. Through this program, the participant has gained valuable insights and skills to foster emotional intelligence, empowering them to navigate the challenges of parenting toddlers, teenagers, and nurturing their own inner child.

Trupthi Rao, Assistant Professor at Dayananda Sagar University, was awarded a Certificate of Participation for attending the 7th Summer School on Advances in Deep Architectures for Signal, Image and Vision Applications (ADASIVA 2025). The program was organized by the Computer Vision and Biometrics Lab at the Indian Institute of Information Technology (IIIT), Allahabad, and conducted in virtual mode from July 07-12, 2025. This event focused on cutting-edge developments in deep learning for signal, image, and vision-related applications. The certificate is signed by course coordinators Dr. Shiv Ram Dubey and Dr. Satish Kumar Singh of IIIT Allahabad.



Prof. S.V.K.R.Rajeswari, Assistant Professor, CSE (AI & ML) served as a Resource Person during the Five-Day Online Value Added Course on “Foundations of Machine Learning: A Mathematical Approach”, held from 14th to 18th July 2025, organized by the Department of CSE (AI & ML), School of Engineering, Dayananda Sagar University.

She delivered expert sessions on:

- Introduction to AI and ML, ML Types and Systems
- Design and Process Flow of ML Projects
- ML Applications using Sensor Data
- Use of ML in Industry - Lecture and Hands-on



Faculty Activities & Achievements

Prof. Trupthi Rao, Assistant Professor, CSE (AI & ML) served as a Resource Person during the Five-Day Online Value Added Course on “Foundations of Machine Learning: A Mathematical Approach”, held from 14th to 18th July 2025, organized by the Department of CSE (AI & ML), School of Engineering, Dayananda Sagar University.

She delivered an expert hands-on session on “Supervised Machine Learning”, where students were introduced to core ML algorithms, their applications, and implementation techniques. The session was designed to bridge theoretical understanding with practical skills, helping participants gain confidence in building ML models.

Prof. Trupthi Rao, Assistant Professor, CSE (AI & ML), Prof. Trupthi Rao, Assistant Professor, Dept. of CSE (AI&ML) has participated in the 5-Day Faculty Development Programme on “Artificial Intelligence: From Fundamentals to Advanced Reasoning” from 10th to 15th July 2025 at T. John Institute of Technology, Bangalore, India.



Prof. Pradeep Kumar K's interactive approach and real-time code demonstrations helped participants connect theoretical principles with functional aspects of language models. His session empowered faculty members to confidently integrate AI tools into curriculum delivery, especially in domains requiring a blend of mathematical rigor and programming proficiency.

The FDP featured eminent speakers from institutions like IISc, IIIT, and professionals from top tech firms including SAP Labs, Adobe, HPE, and Intuit. The program's agenda included key topics such as Linear Algebra, Probability & Statistics, Optimization Techniques, Calculus, and Discrete Mathematics—all within the context of AI. The event also facilitated hands-on training and discussions to enhance the teaching-learning ecosystem in technical institutions.

Prof. Pradeep's contribution to this FDP reflects his commitment to academic excellence and interdisciplinary knowledge sharing in the AI community.

Prof. Pradeep Kumar K, Department of CSE (AI & ML), Dayananda Sagar University, had played a role of Reviewer in the most prestigious conference IEEE CONECCT 11th International Conference on Electronics, Computing and Communication Technologies held on July 10th to 13th 2025 at IEEE Bangalore section at sterling's Mac hotel, Bangalore.



Faculty Activities & Achievements



Dr. Lakshmanan M, Assistant Professor, Department of CSE (AI & ML), Dayananda Sagar University, has been awarded a Certificate of Appreciation by the IEEE Bangalore Section for his valuable contribution as a Reviewer at the 11th International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT 2025), held from July 10-13, 2025 at Sterling's Mac Hotel, Bangalore. His expertise and commitment to academic excellence significantly contributed to the success of the conference's technical review process.



Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, actively participated in the Faculty Development Program titled “Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting” held on 8th July 2025 at Dayananda Sagar University, Bengaluru. The session provided valuable insights into fostering emotional intelligence, helping participants understand the nuances of parenting toddlers and teenagers, while also nurturing their own inner child.

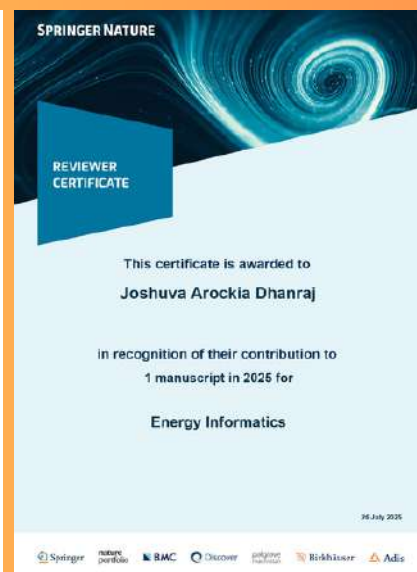
Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, has been awarded a Certificate of Appreciation by the IEEE Bangalore Section for his contribution as a Reviewer at the 11th International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT 2025), held from July 10-13, 2025, at Sterling's Mac Hotel, Bangalore. His involvement in the peer-review process played a vital role in maintaining the technical quality and academic rigor of the conference.

Faculty Activities & Achievements

Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, received a Reviewer Certificate from Springer Nature in recognition of his contribution to the peer review process for Energy Informatics in 2025. His review of a manuscript exemplifies his commitment to maintaining academic integrity and supporting high-quality scholarly publishing.

Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, has been recognized as a Technical Committee Member for the upcoming 3rd International Conference on Intelligent Computing and Robotics (ICICR 2026), to be held in Paris, France, from June 12-14, 2026. His selection reflects his continued contributions to the advancement of intelligent computing and robotics on a global platform.

Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, has been selected as a Technical Committee Member for the 3rd International Conference on Machine Intelligence and Digital Applications (MIDA 2026), scheduled to take place in Xi'an, China, from April 24-26, 2026. His inclusion in the committee reflects his ongoing contributions to the fields of machine intelligence and digital innovation.



Faculty Activities & Achievements

Prof. Trupthi Rao, Assistant Professor, Dept. of CSE (AI&ML) has participated in the "IEEE Signal Processing Society Seasonal School on Explainable AI for Biometric Signal Processing", held from 16 July to 20 July 2025. The event was organized by Computer Vision and Biometrics Lab (CVBL), Department of Information Technology, Indian Institute of Information Technology Allahabad.



Prof. Anubrata Singharoy, Assistant Professor, Department of CSE (AI&ML), served as a Resource Person and delivered an expert session on "Mathematics of AI & ML" during the Five-Day Online Value-Added Course titled "Foundations of Machine Learning: A Mathematical Approach", held from 14th to 18th July 2025, organized by the Department of CSE (AI&ML), School of Engineering, Dayananda Sagar University.



The Department of Computer Science and Engineering (AI & ML) is pleased to share that a research article titled "Blockchain-Enabled Medical Waste Management System for Enhanced Traceability, Safety and Environmental Protection" has been published in the International Journal of Advances in Soft Computing and its Applications (Q2 - SciVal 2025).

Authors:

- Mr. Lakshmanan M - CSE (AI & ML)
- Mr. Joshuva Arockia Dhanraj - CSE (AI & ML)
- Mr. Sriramkumar R - CSE (AI & ML)
- Mr. Mude Nagarjuna Naik - CSE (AI & ML)
- Mr. Mithaguru - CSE (AI & ML)
- Mr. Godhandaraman T - CSE (Data Science)



Faculty Activities & Achievements

Prof. S.V.K.R. Rajeswari, Professor, Department of Computer Science and Engineering (AI & ML), Dayananda Sagar University, has been awarded a Certificate of Appreciation by the Department of Medical Electronics Engineering, Dayananda Sagar College of Engineering, for her active participation in the six-day Faculty Development Program on “Biomaterials & Nanomaterials in Biomedical and Clinical Applications,” held from July 14-19, 2025. The program, supported by IEEE Bangalore Section, EMB Bangalore Chapter, and the Biomedical Engineering Society of India, focused on advancements in biomedical and clinical applications of emerging materials. Her enthusiastic involvement reflects her dedication to continuous learning and interdisciplinary research in biomedical engineering.



Prof. Trupthi Rao, Assistant Professor, Dept. of CSE (AI&ML) has presented a paper titled “A Novel Post-hoc Explainable AI Method to unveil an Ensemble Black-box ML Model for Identification Friend or Foe in Military AI” in the 16th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2025), held at IIT Indore, in association with the IEEE Electronics Packaging Society and the All India Council for Technical Education (AICTE), during July 6th to 11th 2025.

Prof. Trupthi Rao, Assistant Professor, Dept. of CSE (AI&ML) has presented a paper titled “Investigating the Root Causes of Crime using Fuzzy Logic” and “Smarter Farming: Predicting Crop Viability through Temperature and Humidity Analysis” at the 3rd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON-2025) during 1st-2nd, August 2025 in Association with IEEE Bangalore Section, Organized by Nitte Meenakshi Institute of Technology, Bengaluru.



Faculty activities & Achievements

Dr. Joshuva Arockia Dhanraj, Assistant Professor, Dayananda Sagar University, Bengaluru, Karnataka, has participated in the AICTE-recognized Faculty Development Programme on "Data Science and Machine Learning" organized by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, conducted by the Information Management and Emerging Engineering Department from 28th July to 1st August 2025.

Dr. Joshuva Arockia Dhanraj, Assistant Professor, Dayananda Sagar University, Bengaluru, Karnataka, has participated in the AICTE-recognized Faculty Development Programme on "AI for Industry 4.0" organized by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, conducted by the Computer Science and Engineering Department from 4th to 8th August 2025.

The Workshop on Digital Logic Design, organized by **Dr. S.V.K.R. Rajeswari**, Department of Computer Science and Engineering (AI & ML), Dayananda Sagar University, was conducted from 2nd September to 12th September 2025. The theory sessions of the workshop were skillfully delivered by Dr. Abdul Haq Nalband, Associate Professor, Dept. of CSE (AI & ML), during regular class hours in the ESD classrooms. These sessions were designed to provide students with a strong conceptual foundation in digital logic fundamentals. Topics included number systems, Boolean algebra, logic gates, combinational and sequential circuits, and their applications in computing systems.

The workshop was further strengthened by the active involvement of the Dr. Prateek Verma, Prof. Govind Kumar Pandey, Dr. Mude Nagarjuna Naik, and Dr. Shirshendu Roy, who regularly handle the ESD subject. Their assistance and coordination played a vital role in guiding students and ensuring smooth execution of the sessions.

Dayananda Sagar University
School of Engineering
Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)

WORKSHOP ON
DIGITAL LOGIC DESIGN

A hands-on 2 week workshop designed to provide in-depth knowledge and practical skills in Digital Logic Design
Fundamentals (for III Year CSE - AI & ML students)

Date & Duration:
2nd September 2025 – 12th September 2025

Venue:
Theory Sessions: ESD class hours
Practical Sessions: Labs 508 & 509 during lab hours

Organizer:
Dr. S.V.K.R. Rajeswari
Assistant Professor, Dept. of CSE (AI & ML)

Distinguished Resource Person:
Dr. Abdul Haq Nalband
Associate Professor, Dept. of CSE (AI & ML)

Theory Sessions
Delivered by: Dr. Abdul Haq Nalband

Date	Time	Participants	Faculty Coordinator
02-09-2025	1:45 PM - 2:40 PM	III-A Students	Dr. S.V.K.R. Rajeswari
03-09-2025	8:30 AM - 9:30 AM	III-B Students	Dr. Prateek Verma
03-09-2025	1:45 PM - 2:40 PM	III-C Students	Prof. Govind Kumar Pandey
03-09-2025	9:45 AM - 11:40 AM	III-D Students	Dr. Mude Nagarjuna Naik
04-09-2025	3:00 PM - 4:00 PM	III-E Students	Dr. Shirshendu Roy & Dr. S.V.K.R. Rajeswari

Practical Sessions
Labs: 508 & 509

Date	Time	Participants	Session Presenters
02-09-2025	8:30 am to 10:10 am	(AI Students) (AI & ML Students)	Lab 508: Dr. S.V.K.R. Rajeswari, Dr. Mude Nagarjuna Naik Lab 509: Dr. Abdul Haq Nalband, Prof. Prateek Verma
03-09-2025	8:30 am to 10:10 am	(AI & ML Students) (AI & ML Students)	Lab 508: Dr. Abdul Haq Nalband, Prof. Prateek Verma Lab 509: Dr. S.V.K.R. Rajeswari, Dr. Mude Nagarjuna Naik
03-09-2025	1:45 pm to 4:10 pm	(AI & ML Students) (AI & ML Students)	Lab 508: Prof. Govind Kumar Pandey, Dr. Abdul Haq Nalband Lab 509: Prof. Govind Kumar Pandey, Dr. Abdul Haq Nalband
04-09-2025	3:00 pm to 4:00 pm	(AI & ML Students) (AI & ML Students)	Lab 508: Dr. Shirshendu Roy, Dr. S.V.K.R. Rajeswari Lab 509: Dr. Shirshendu Roy, Dr. S.V.K.R. Rajeswari

Patrons
B.S. Satyanarayana, Vice Chancellor In-charge, DSU
Dr. Prakash S, Pro-Vice Chancellor, DSU
Dr. Puttamedappa C, Registrar, DSU
Dr. Udaya Kumar Reddy, Dean, SGE DSU

Chief Patrons
Dr. D Hemachandra Sagar, Chancellor, DSU
Dr. D Premachandra Sagar, Pro-Chancellor, DSU

Convenor & Organizer
Convenor: Dr. Jayavir Vrindevan V, Professor
Chalperson, Dept. of CSE (AI & ML)
Organizer: Dr. S.V.K.R. Rajeswari
Assistant Professor, Dept. of CS (AI & ML)



Faculty Activities & Achievements

Lab Schedule Summary (8th - 12th Sept 2025):

On 8th September 2025

Section III-A (8:30 AM - 10:20 AM)

Resource Persons: Dr. S.V.K.R. Rajeswari, Dr. Mude Nagarjuna Naik, Ms. Hairuneesa Beevi

Resource Persons: Dr. Abdul Haq Nalband, Prof. Partha Protim Sen



9th September 2025

Section III-B (8:30 AM - 10:20 AM)

Resource Persons: Dr. S.V.K.R. Rajeswari, Mr. Suman Kumar Yadav, Prof. Tejal Khade

Resource Persons: Prof. Pradeep Kumar P, Prof. Sahil Pocker, Prof. Amritha Kundu

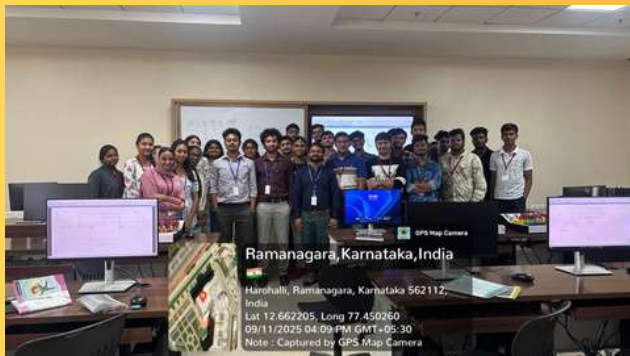
Section III-E (10:45 AM - 12:35 PM)

Resource Persons: Prof. Govind Kumar Pandey, Dr. Abdul Haq Nalband, Prof. Hairuneesa Beevi

Resource Persons: Prof. Upasana Shil, Dr. Prateek Verma, Dr. Sugandha Saxena



Faculty Activities & Achievements

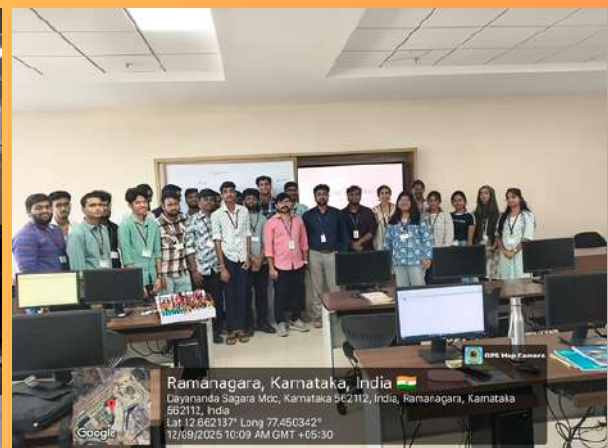


11th September 2025

Section III-C (02:40 PM - 04:20 PM)

Resource Persons: Prof. Sahil Poker, Prof. Partha Protim, Prof. Govind Kumar Pandey

Resource Persons: Prof. Pradeep Kumar, Prof. R. Nivetha, Dr. Sumit Kumar Yadav



12th September 2025

Section III-D (08:30 AM - 10:20 AM)

Resource Persons: Dr. Prateek Verma, Dr. Abdul Haq Nalband, Prof. Hairuneesa Beevi

Resource Persons: Dr. Mude Nagarjuna Naik, Prof. Sarang Mohrir

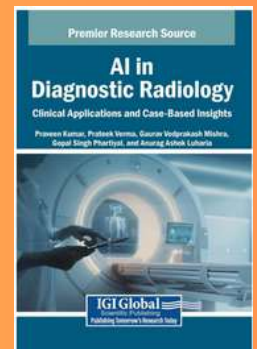
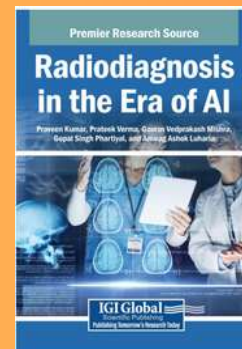


Faculty Activities & Achievements

Dr. S.V.K.R.Rajeswari, Assistant Professor from CSE (AI & ML) has received a Certificate of Appreciation for serving as a Reviewer at the 6th IEEE INDISCON 2025. The conference was organized by the IEEE Rourkela Subsection and IEEE India Council, and it took place at NIT Rourkela, Odisha, India, from 21st to 23rd August 2025.



Dr. Prateek Verma, Associate Professor, from CSE (AI & ML) has co-edited the Scopus indexed book “AI in diagnostic radiology: Clinical applications and case-based insights” providing insights about the AI models applicable to real-world areas like chest X-ray analysis, mammography, CT and MRI interpretation, and triage in emergency imaging. Case-based insights demonstrate how AI assists in early disease detection, supports differential diagnosis, and reduces diagnostic errors, contributing to better patient outcomes. However, effective clinical integration requires careful validation, consideration of ethical implications, and collaboration between radiologists and AI developers to ensure technology works with, rather than replaces, human expertise.



Dr. Jayavrinda Vrindavanam, Professor and Head of the Department, CSE-AI & ML delivered an engaging masterclass on “AI: The Future of Healthcare” for MBBS students as part of the ASCENTIA Program, organized by CDSIMER.

The session highlighted:

- The evolving role of AI in modern healthcare delivery systems
- Cutting-edge applications of AI in Neurology
- Real-world case studies from ongoing AI healthcare research
- Ethical and practical challenges of implementing AI in clinical practice

The talk offered students valuable insights into how AI is shaping the future of medicine and patient care.



Faculty Activities & Achievements



Prof. Anubrata Singharoy, Assistant Professor, Department of CSE -AI&ML, successfully completed the Faculty Development Program on "Artificial Intelligence and Computer Vision" conducted by C-DAC Hyderabad under the Electronics & ICT Academy Scheme Phase II, supported by the Ministry of Electronics & Information Technology, Government of India, held from 8th to 12th September 2025, organized by the Centre for Development of Advanced Computing (C-DAC), Hyderabad.



Dr. Joshuva Arockia Dhanraj, Professor, CSE (AI&ML), SoE, Dayananda Sagar University, has successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on "Emerging Technologies and Trends of Future Energy-2030". This FDP was organized by St. Joseph's College of Engineering and Technology from 15th to 20th September 2025. The program was conducted under the guidance of the All India Council for Technical Education (AICTE), New Delhi, with Dr. Sunil Luthra (Director & Bureau Head, Training and Learning Bureau, AICTE) overseeing the initiative. The coordinator was K. R. Kavitha, Assistant Professor, who facilitated the sessions.

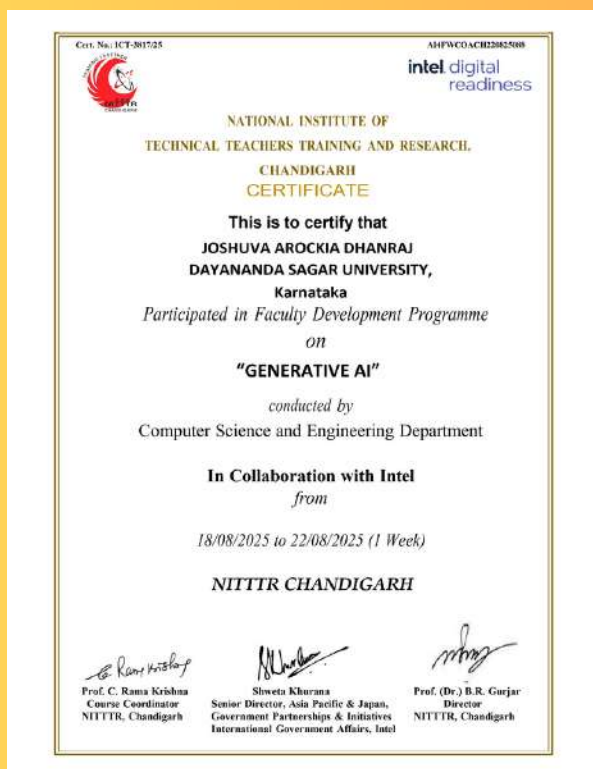
Dr. Joshuva Arockia Dhanraj, Professor, CSE (AI&ML), SoE, Dayananda Sagar University has participated in a Three-Day International Virtual Faculty Development Programme on "Modern Research Toolkit: AI Reviews, Mendeley & Mixed Method Approach", held from 1st to 3rd September 2025. The FDP was organized by the Department of Commerce, Saveetha School of Law (SIMATS). The event was led by Prof. Dr. Asha Sundaram (Principal, SSL), Dr. Jayamala C (HoD, Department of Commerce), and coordinated by Dr. Meenakshi N.



Faculty Activities & Achievements

Dr. Joshuva Arockia Dhanraj, Professor, CSE (AI&ML), SoE, Dayananda Sagar University, has attended a one-week **Faculty Development Programme** on “Generative AI” organized by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 18th to 22nd August 2025. The FDP was conducted by the Department of Computer Science and Engineering in collaboration with Intel. The program was coordinated by Prof. C. Rama Krishna (NITTTR), with strategic insights from Shweta Khurana (Senior Director, Asia Pacific & Japan, Government Partnerships & Initiatives, Intel) and Prof. (Dr.) B.R. Gurjar, Director, NITTTR Chandigarh. The FDP explored generative AI models, frameworks, and practical applications, fostering AI-driven teaching and research methodologies.

Between 1st and 29th September 2025, **Dr. Joshuva Arockia Dhanraj**, Professor, CSE (AI&ML), SoE, Dayananda Sagar University has actively contributed to the academic research community as a reviewer for Elsevier journals. During this period, he reviewed 20 manuscripts across 12 different journals. These included reputed journals such as Applied Energy, Energy Reports, Computers & Industrial Engineering, Engineering Applications of Artificial Intelligence, Measurement, and Sustainable Energy Technologies and Assessments. This demonstrates his expertise in multidisciplinary domains such as energy, AI, and sustainability, strengthening the peer-review ecosystem.



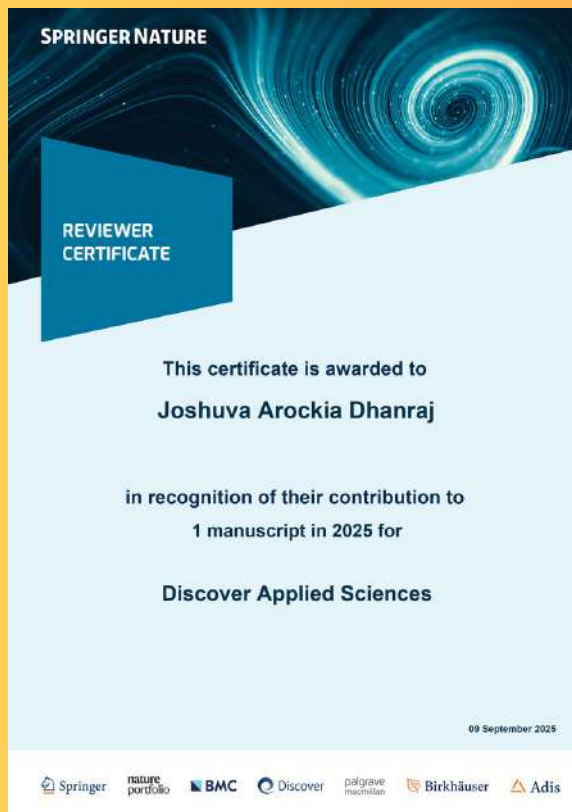
The Elsevier Review History Report for Joshuva Arockia Dhanraj shows a review period from September 1 to 29, 2025. It lists five journals reviewed: Environmental and Sustainability Indicators (1 review), Franklin Open (1 review), Measurement (3 reviews), Polyhedron (1 review), and Sustainable Energy Technologies and Assessments (1 review).

Journal	Number of Reviews
Environmental and Sustainability Indicators	1
Franklin Open	1
Measurement	3
Polyhedron	1
Sustainable Energy Technologies and Assessments	1

Dr. Joshuva Arockia Dhanraj, Professor, CSE (AI&ML), SoE, Dayananda Sagar University has received recognition for his contribution as a reviewer for the journal Discover Applied Sciences on 9th September 2025. This certificate highlights his valuable role in maintaining the quality and integrity of scientific publishing by critically evaluating a manuscript in 2025. Such contributions uphold the journal’s standards in applied science research.

Faculty Activities & Achievements

On 26th September 2025, **Dr. Joshuva Arockia Dhanraj**, Professor, CSE (AI&ML), SoE, Dayananda Sagar University was acknowledged for his reviewer contribution to Scientific Reports, a reputed international journal. The certificate was issued in recognition of his critical evaluation of a submitted manuscript in 2025. This acknowledgment signifies his role in supporting the scientific community by ensuring the quality and credibility of research publications in a multidisciplinary context.



Dr. Joshuva Arockia Dhanraj, Professor, CSE (AI&ML), SoE, Dayananda Sagar University, was recognized in the Stanford University Global Ranking of **Top 2% Scientists for the year 2025**, based on the Elsevier-Scopus database. This achievement highlights his outstanding research contributions in the fields of Artificial Intelligence, Energy Systems, Robotics, and Sustainable Technologies. The ranking, curated annually by a team led by Prof. John Ioannidis (Stanford University), evaluates scientists worldwide based on standardized citation indicators including total citations, h-index, co-authorship adjusted hm-index, and composite score. Securing a place in the world's top 2% scientists is a mark of global research excellence, reaffirming his impactful scholarly contributions and international recognition in advancing cutting-edge research and innovation.



Faculty Activities & Achievements

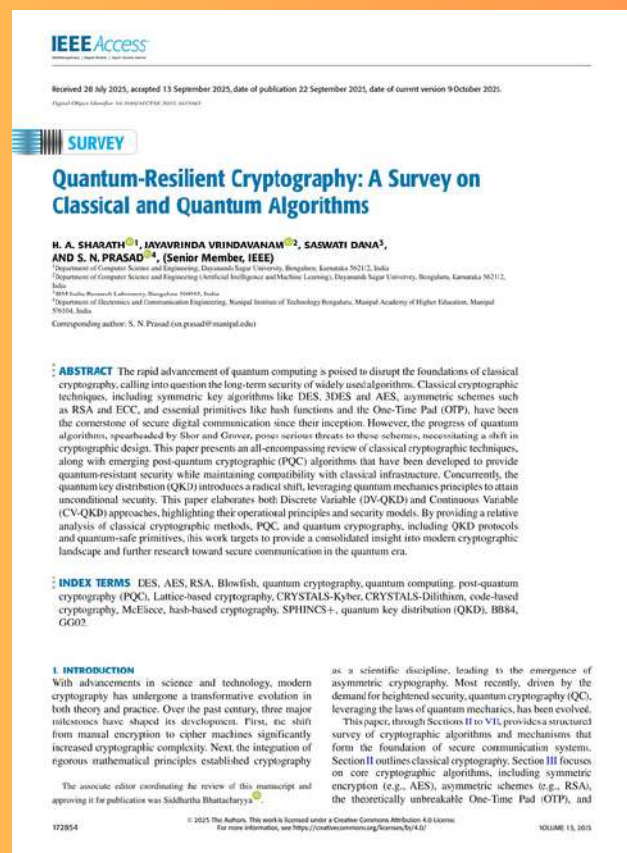
Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented paper entitled “Enhancing Thyroid Disease Diagnosis through Deep Learning and Artificial Neural Network” in IEEE 4th International Conference for Advancement in Technology (ICONAT) 2025, during 19th to 21st September 2025.

Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), served as a Reviewer for the 2nd International Conference on Recent Developments in Electronics and Communication Systems (RDECS-2025) organized by the Département of ECE Engineering on 29th and 30th August 2025.



Dr. Jayavrinda Vrindavanam, HoD and Professor, Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), and her PhD scholar, **Mr. H A Sharath**, Assistant Professor, Department of Computer Science and Engineering, have published a paper titled “Quantum-Resilient Cryptography: A Survey on Classical and Quantum Algorithms”. The paper was published in the IEEE Access journal, a high-impact journal with an Impact Factor of 3.4 and a Q1 (SJR) Country Rank.

IEEE Access Journal Link :
<https://ieeexplore.ieee.org/document/11175376>



Faculty Activities & Achievements

Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has served as a Reviewer for the International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG 2025) held at JSS Science and Technology University, Mysuru, during 10th and 11th October, 2025.



Dr. Bahubali Shiragapur, Professor, AI & ML Department, School of Engineering, Dayananda Sagar University (DSU), Bangalore, has delivered a Hands-on session on “Empowering Pharmaceutical Research with Machine Learning and Large Language Models (LLMs)” at the Guest Talk organized by the Department of Pharmacognosy, Faculty of Pharmacy, held at Ramaiah University of Applied Sciences (RUAS), Bengaluru, on 9th October, 2025.

Dr. Bahubali Shiragapur, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, has delivered a Faculty Development Program (FDP) session on “Intelligent Medical Imaging & Modalities” as part of the IEEE FDP Series, organized by KLE Technological University, Hubballi.



Faculty Activities & Achievements

Prof. Bhuvana Mohini T. N, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), Dayananda Sagar University - School of Engineering, presented her research paper titled “Enhanced Hybrid Deep Learning Model for Alzheimer Disease Diagnosis” at the IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025).



The conference was organized by Mysuru Royal Institute of Technology, Mandya, in association with IEEE Bangalore Section and IEEE Mysore Subsection on 24th and 25th October 2025. The presented work focuses on leveraging hybrid deep learning architectures for improving early diagnosis of Alzheimer's disease, addressing one of the most critical challenges in medical image analysis.

Dr. V.K.R.Rajeswari Satuluri, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), Dayananda Sagar University - School of Engineering, has actively participated and successfully guided and presented 3 student projects 1) Healthcarebot': A Smart Patient Triage & Medical Frequently Answered Questions (Faq) Assistant 2) Proactive Health Management: An Ai-Powered Web Application 'VytalAI' For Early Prediction Of Lifestyle Disorders, 3) Satellite-Driven Forecasting Of Integrated Air Quality And Weather Hazards In Urban Centers at the IEEE Mini Project Symposium 2025.



The symposium was organized by the IEEE CEDA Bangalore Chapter in association with the IEEE Bangalore Section and IEEE Mysore Subsection, and hosted at ATME College of Engineering, Mysuru, on 25th October 2025. The event served as a platform for participants to showcase innovative projects, fostering technical knowledge sharing and collaboration.

Faculty Activities & Achievements

Prof.R. Sriramkumar, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), Dayananda Sagar University, Bengaluru, has successfully completed the NPTEL course titled “Stress Management” conducted during July-August 2025. The course duration was four weeks, and he secured an overall score of 58.34/75 with a perfect score of 25/25 in assignments, achieving a final consolidated score of 83% with Elite Silver certification. This course has equipped him with valuable insights into stress management techniques, contributing positively to both his personal and professional development.



Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented a paper entitled “Design and Enhanced Analysis of Silk Fabric Classification Using MobileNetV2 with Grad-CAM Interpretability” in 2025 6th Global Conference for Advancement in Technology (GCAT) during 24th to 26th October 2025 held at Nagarjuna College of Engineering & Technology, Bangalore.

Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented a paper entitled “Crop and Farming Technique Selection: A Hybrid Fuzzy AHP-TOPSIS Model” in 2025 6th Global Conference for Advancement in Technology (GCAT) during 24th to 26th October 2025 held at Nagarjuna College of Engineering & Technology, Bangalore.



Dr.V.K.R. Rajeswari Satuluri, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), Dayananda Sagar University, has served as a Resource Person for the Personality Development Workshop organized by SRM Centre for Clinical Pharmacology at SRM Medical College Hospital & Research Centre, held during 7th and 8th November, 2025.



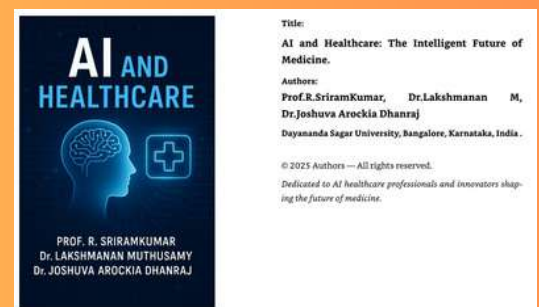
Faculty Activities & Achievements

Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented a paper entitled “Causal LIME: Enhancing Local Explanations with Causal Perturbations for Military Sensor Data” at the 2025 IEEE Region 10 Conference (TENCON 2025), held at the Sabah International Convention Centre (SICC), Kota Kinabalu, Malaysia, from 27-30 October 2025.

Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), served as a Reviewer during the IEEE International Conference on Electrical, Electronics and Computer Science with Advance Power Technologies - A Future Trend (ICE2CPT 2025), organized by the Department of Electrical Engineering, National Institute of Technology Jamshedpur, in association with the IEEE Kolkata Section, IEEE Industrial Electronics Society and IEEE Student Branch, NIT Jamshedpur, held from 29th to 31st October 2025.



Prof. R. Sriramkumar, Assistant Professor, **Dr. M. Lakshmanan**, Assistant Professor, and **Dr. Joshuva Arockia Dhanraj**, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University, has successfully published a book titled “AI and Healthcare: The Intelligent Future of Medicine” on Amazon Kindle. The book provides a comprehensive understanding of the applications of Artificial Intelligence in healthcare, including Machine Learning, Deep Learning, Natural Language Processing, and Computer Vision, along with real-world case studies and ethical perspectives. The publication was released under Amazon Kindle Direct Publishing with ASIN: B0G14RV4C8.

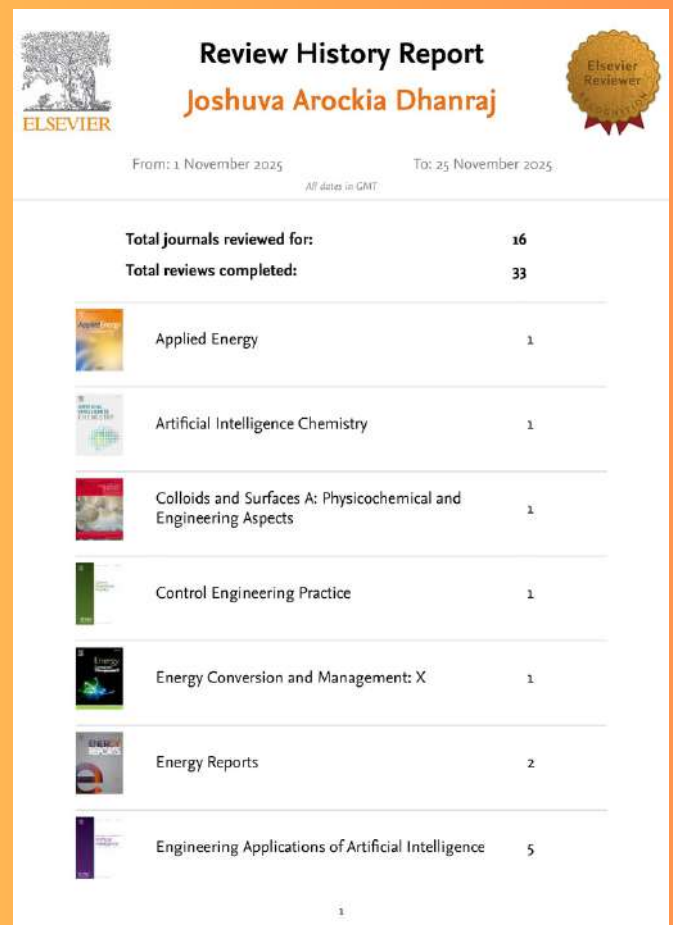


Faculty Activities & Achievements

Mr. Govind Kumar Pandey, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, has participated in an online webinar on “RF Power Amplifier Design Methodology” organized by the IEEE Antennas and Propagation Society (AP-S) Student Branch Chapter, IIT Jodhpur, under the IEEE Rajasthan Subsection, held on 11th October, 2025. The session focused on advanced concepts and methodologies in RF power amplifier design.



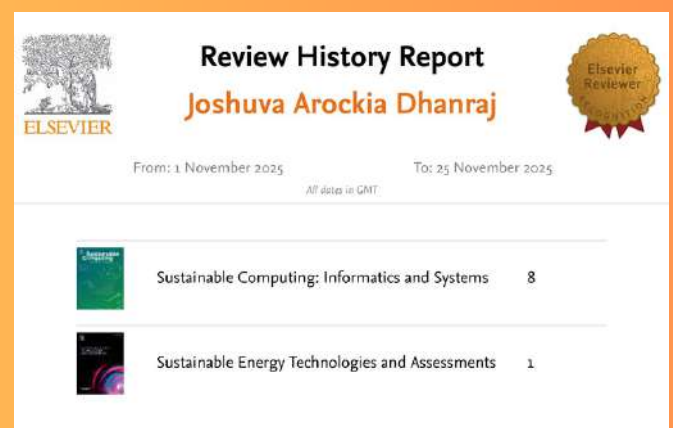
Dr. Joshuva Arockia Dhanraj, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, has served as a peer reviewer for 16 high-impact Scopus- and SCI-indexed international journals during the period from 1st to 25th November 2025, completing a total of 33 manuscript reviews. His reviews covered multidisciplinary areas including Energy Systems, Artificial Intelligence, Control Engineering, Sustainable Computing, and Environmental Studies, evaluating advanced topics such as federated learning, digital twins, hydrogen technologies, microgrid modelling, and sustainable computing. His contributions significantly supported the dissemination of high-quality research and reflect his strong scholarly engagement with the global research community.



Elsevier Review History Report for Joshuva Arockia Dhanraj. The report covers the period from 1 November 2025 to 25 November 2025. It shows a total of 16 journals reviewed and 33 reviews completed. The journals and their respective review counts are listed in the table below.

Journal	Reviews Completed
Applied Energy	1
Artificial Intelligence Chemistry	1
Colloids and Surfaces A: Physicochemical and Engineering Aspects	1
Control Engineering Practice	1
Energy Conversion and Management: X	1
Energy Reports	2
Engineering Applications of Artificial Intelligence	5

Dr. Joshuva Arockia Dhanraj, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, has been recognized by Springer Nature for serving as a peer reviewer for the journal Discover Applied Sciences in 2025, having successfully completed the review of one manuscript. His contribution supported the maintenance of the journal's academic quality and integrity, reflecting his expertise in applied sciences and his commitment to promoting high-quality, evidence-based research publication.



Elsevier Review History Report for Joshuva Arockia Dhanraj. The report covers the period from 1 November 2025 to 25 November 2025. It shows a total of 2 journals reviewed and 9 reviews completed. The journals and their respective review counts are listed in the table below.

Journal	Reviews Completed
Sustainable Computing: Informatics and Systems	8
Sustainable Energy Technologies and Assessments	1

Faculty Activities & Achievements

Dr. Joshuva Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, actively participated in the advanced technical webinar titled “Demonstration of ML-Driven VLSI Design Tools”, held on 6 November 2025, organized jointly by AMD-Xilinx and CoreEL Technologies. This certificate highlights his engagement with state-of-the-art VLSI design methodologies that integrate Machine Learning to enhance intelligent design automation workflows. Topics typically covered in this domain include ML-assisted hardware optimization, EDA acceleration, intelligent circuit synthesis, and predictive performance modeling. His participation reflects a strong commitment to continuous upskilling in the rapidly evolving semiconductor and AI-driven automation landscape.



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025
All dates in GMT

	Environmental and Sustainability Indicators	1
	HardwareX	1
	Journal of the Franklin Institute	2
	Knowledge-Based Systems	2
	Measurement	4
	Polyhedron	1
	Results in Engineering	1

2



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025
All dates in GMT

	Applied Energy 1 reviews completed
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Manuscript title	Revision	Date completed
Innovative approaches to waste heat recovery: Coupling high temperature vapour compression heat pumps with salt hydrate thermochemical systems	2	10 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025
All dates in GMT

	Artificial Intelligence Chemistry 1 reviews completed
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Manuscript title	Revision	Date completed
Neural networks for neurocomputing circuits: a computational study of tolerance to noise and activation function non-uniformity when machine learning materials properties	1	5 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025
All dates in GMT

	Colloids and Surfaces A: Physicochemical and Engineering Aspects 1 reviews completed
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Manuscript title	Revision	Date completed
Silver-Doped Bioactive spherical Glass Ceramic Nanoparticles with Enhanced Osteogenic and Antibacterial Properties for Bone Tissue Engineering	1	20 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025
All dates in GMT

	Control Engineering Practice 1 reviews completed
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Manuscript title	Revision	Date completed
Wind turbine inflow estimation via nested, self-calibrating EKF: a field test	0	24 November 2025

Faculty Activities & Achievements



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Energy Conversion and Management: X
1 reviews completed

Manuscript title	Revision	Date completed
Navigating towards e-fuel: A scientometric insight into the application of membrane reactors	0	19 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Energy Reports
2 reviews completed

Manuscript title	Revision	Date completed
Optimization of Waste Heat Utilization from Green Hydrogen PEM Electrolyzers for Enhanced Energy Efficiency in Hot Climates: A Persian Gulf Region Airport Study	1	20 November 2025
Decision Analytic Scheme of Emergency Energy Supply Strategies Under Pessimistic Multi-Granulation Roughness of Pythagorean Fuzzy Sets through Soft Relation	0	20 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Environmental and Sustainability Indicators
1 reviews completed

Manuscript title	Revision	Date completed
Drivers of variation in wildlife mortality at wind energy facilities: power production, turbine size, and seasonality	0	19 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Engineering Applications of Artificial Intelligence
5 reviews completed

Manuscript title	Revision	Date completed
Adaptive Kalman-Based Federated Learning Framework with ResiDense GRU Network for Railway Point Machine Fault Diagnosis	0	20 November 2025
Enhanced Visual State Space Model for Real-Time Wafer Defect Detection	0	19 November 2025
Physics-informed blind wavelet deconvolution transfer network for cross-machine bearing fault diagnosis	1	19 November 2025
Causal Reliability-Aware Meta-Learning for Industrial Fault Diagnosis	0	10 November 2025
Active Learning Evaluation Metrics for Classification and Regression Frameworks	0	7 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



HardwareX
1 reviews completed

Manuscript title	Revision	Date completed
Octopus: A low-cost, modular environmental sensing platform for makers.	0	23 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Journal of the Franklin Institute
2 reviews completed

Manuscript title	Revision	Date completed
Estimating the Covariance of Quaternion Measurements from Accelerometer and Magnetometer Using a Least Squares Regression Approach	1	12 November 2025
VMWFusion-Net: An Integrated Deep Fusion Network for Early Fault Diagnosis of DC-DC Converters	1	7 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Knowledge-Based Systems
2 reviews completed

Manuscript title	Revision	Date completed
Physics-Augmented Federated Continual Learning for Rotating Machinery Fault Diagnosis	0	12 November 2025
From Domain-Invariant Channel Adaptation to Prototype Consistency Learning: A Novel Framework for Single Domain Generalization Fault Diagnosis	2	7 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Knowledge-Based Systems
2 reviews completed

Manuscript title	Revision	Date completed
Physics-Augmented Federated Continual Learning for Rotating Machinery Fault Diagnosis	0	12 November 2025
From Domain-Invariant Channel Adaptation to Prototype Consistency Learning: A Novel Framework for Single Domain Generalization Fault Diagnosis	2	7 November 2025

Faculty Activities & Achievements



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Measurement
4 reviews completed

Manuscript title	Revision	Date completed
Accuracy Analysis of Cross-spectral Bearing for Arbitrary SNR based on the Von Mises distribution	0	19 November 2025
In-Situ Dynamic Transmission Error-Driven Lightweight Wide-Area Deconstruction Network for Gear Spalling Fault Intelligent Diagnosis	0	19 November 2025
Suppression of Common-Mode Interference in Space Accelerometer Data Using Synchronous Angular Measurements	1	6 November 2025
Bayesian probability-based intelligent diagnosis of mechanical faults of integrated high-speed electric powertrain with small samples	1	6 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Polyhedron
1 reviews completed

Manuscript title	Revision	Date completed
The synthesis of a N-SO ₃ H rich functionalized magnetic catalyst based on silica and its efficiency in the synthesis of spiro-indeno[1,2-b]quinoxaline-pyran derivatives	1	19 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Results in Engineering
1 reviews completed

Manuscript title	Revision	Date completed
Environmental Implications of Technological Advancements: A Global Perspective on ICT, Green Innovation, Science, and Economic Factors	0	6 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Sustainable Computing: Informatics and Systems
8 reviews completed

Manuscript title	Revision	Date completed
Design and Performance Assessment of a Green Hydrogen and Renewable Integrated Hybrid Industrial Microgrid with Advanced Control Strategies Considering Uncertainties of Renewable Energy	1	24 November 2025
Integration of Intelligent Building Operation Data Based on Multi Feature Fusion Federated Learning Algorithm	0	20 November 2025
Energy-aware Load Balancing System for Large Language Models Deployed on High-performance Computing Clusters	0	20 November 2025
A Hybrid Fuzzy Logic and Deep Reinforcement Learning Algorithm for Adaptive Task Scheduling and Resource Allocation in Heterogeneous Fog-Cloud Environments	3	19 November 2025
A Digital Twin-Enabled Priority-Driven Attention Graph with Meta-PPO Resource Reclamation Framework for Energy-Efficient Resource Allocation in WBANs	0	19 November 2025
Multi-Objective with Archimedes One-to-One Algorithm enabled Energy Efficient CH Selection and Routing in IoT-enabled WSN	0	19 November 2025
HAPSO: An ACO-Initialized, Discretization-Aware PSO for Energy- and Carbon-Efficient VM Consolidation in Green Cloud Datacenters	1	12 November 2025

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Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT

Manuscript title	Revision	Date completed
Energy-Efficient Congestion Control in RDMA Networks Using DCQCN for Scalable Performance	3	10 November 2025



Review History Report

Joshuva Arockia Dhanraj

From: 1 November 2025 To: 25 November 2025

All dates in GMT



Sustainable Energy Technologies and Assessments
1 reviews completed

Manuscript title	Revision	Date completed
Catalytic Sono-Chemical Water Electrolysis for Clean Hydrogen Production	0	7 November 2025

Faculty Activities & Achievements

Dr. Joshuva Arockia Dhanraj, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, successfully presented his research paper titled “Energy Management with Explainable Hybrid AI Predictive-Reinforcement in Smart Buildings” at the 10th International Conference on Communication and Electronics Systems (ICCES 2025), held at PPG Institute of Technology, Coimbatore, during 28th to 30th October 2025.

Dr. Joshuva Arockia Dhanraj, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, successfully presented his research paper titled “Nanosatellite and IoT-Enabled Climate-NDVI Data Fusion for Accurate Wheat Yield Prediction” at ICCES 2025.

Dr. Joshuva Arockia Dhanraj, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, has served as an official reviewer for the IEEE International Conference on Electrical, Electronics and Computer Science with Advance Power Technologies - A Future Trend (ICE2CPT 2025), held at NIT Jamshedpur in association with the IEEE Kolkata Section, IEEE Industrial Electronics Society, and IEEE Student Branch.

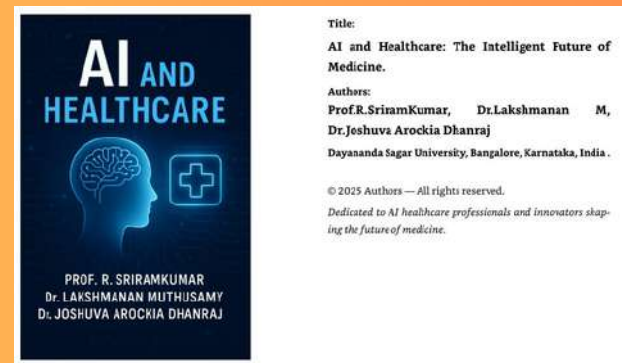


Dr. Joshuva Arockia Dhanraj, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, successfully completed the AICTE-ATAL Faculty Development Program titled “Next-Gen VLSI and Semiconductor Systems: Integrating Machine Learning for Intelligent Design Automation,” conducted at R.M.D. Engineering College from 3rd to 8th November 2025.



Faculty Activities & Achievements

Dr. Joshuva Arockia Dhanraj, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, is a co-author of the book titled “AI in Healthcare: The Intelligent Future of Medicine,” published and listed on Amazon as a Kindle Edition (177 pages), along with Prof. R. Sriramkumar and Dr. M. Lakshmanan. The book offers comprehensive coverage of AI applications in healthcare, including medical imaging analytics, predictive diagnosis, clinical decision support systems, personalized treatment, and healthcare automation.

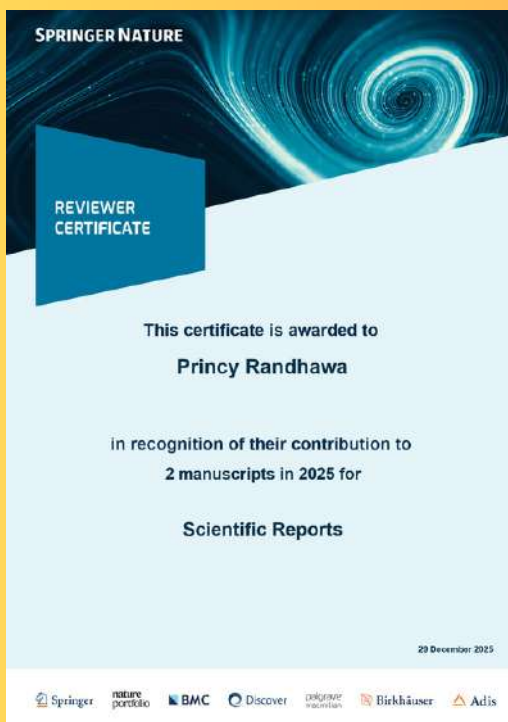


Dr. Vinutha N, Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), School of Engineering, Dayananda Sagar University (DSU), Bangalore, presented the paper titled “Advanced Vision Transformer Ensemble For Automated Polycystic Ovarysyndrome Classification: A Deep Learning Approach With Gpu Optimisation” at the 2nd IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies 2025, held on 07-08 November 2025 at ABV-IIITM Gwalior.

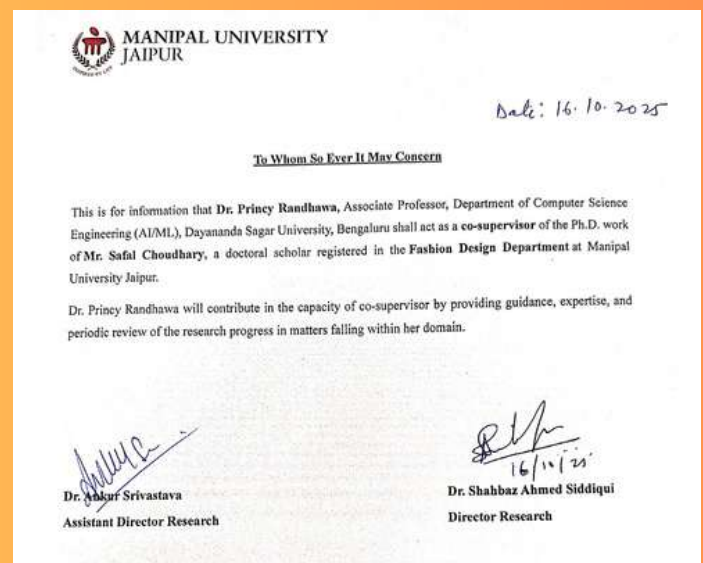


Faculty Activities & Achievements

On October and December 2025, Dr. Princy Randhawa, Associate Professor, CSE (AI&ML), SoE, Dayananda Sagar University was acknowledged for his reviewer contribution to Scientific Reports, a reputed international journal. The certificate was issued in recognition of his critical evaluation of a submitted manuscript in 2025.



Dr. Princy Randhawa, Associate Professor, has been appointed as a Co-Supervisor for Ph.D. research at Manipal University Jaipur. She will co-supervise the doctoral research work of Mr. Safal Choudhary, a Ph.D. scholar from the Department of Fashion Design. In this role, she will provide academic guidance, domain expertise, and periodic review of the research progress.



Dr. Princy Randhawa successfully completed an advanced online course titled “Agentic AI and AI Agents: A Primer for Leaders”, authorized by Vanderbilt University and offered through Coursera, in November 2025. The course focused on the fundamentals of agentic AI, intelligent agents, and their leadership and decision-making applications.



Faculty Activities & Achievements

Dr. Govind Kumar Pandey has successfully been awarded the Doctor of Philosophy (Ph.D.) degree in the Department of Electronics and Communication Engineering from SRM Institute of Science and Technology, Tamil Nadu, in December 2025. His doctoral research focused on Graphene-Based Terahertz Antennas for Wireless Communications. The successful completion of this research reflects strong scholarly work and effective academic mentoring. This achievement highlights the department's contribution to advanced research and innovation.



Dr. Princy Randhawa, Associate Professor, actively participated in a Five-Day Faculty Development Programme on “Agentic AI and Generative AI: Shaping the Next Generation of Intelligent Systems”, conducted by the Department of Information Science and Engineering, Nitte Meenakshi Institute of Technology, Bengaluru, from 27th to 31st October 2025. The programme offered valuable insights into emerging trends and applications of agentic and generative AI.



Faculty Activities & Achievements

Dr. Princy Randhawa, Associate Professor, was recognized by the Research and Development Department, ICAI University Tripura, for her valuable contribution as a Resource Person in a national-level webinar on “Artificial Intelligence (AI) in Research in the Present Context and Future Directions”, held on 26th September 2025 in virtual mode. Her lecture provided clear insights into the role of AI in modern research and emerging directions. The session was well received and more than 200 participants were present in the webinar.



Dr. Princy Randhawa, Associate Professor, served as a Session Chair at the First International Conference on Computational Intelligence and Data Communication (ICCIDC 2025) held in Bali, Indonesia, on 10-11 October 2025. She effectively moderated technical sessions and facilitated academic discussions among international researchers.



Dr. Princy Randhawa, Associate Professor, was invited as a Keynote Speaker at the First International Conference on Computational Intelligence and Data Communication (ICCIDC 2025) held in Bali, Indonesia, on 10-11 October 2025. Her keynote address focused on emerging trends and research directions in computational intelligence and data-driven technologies.



Faculty Activities & Achievements

Dr. Princy Randhawa, Associate Professor, delivered an invited lecture at Manipal Institute of Technology, Manipal, as part of the Lecture Series on Artificial Intelligence for Industrial Engineering on 3rd October 2025. The session focused on practical applications of machine learning in industrial systems, supported by real-world case studies. Students gained valuable insights into predictive maintenance, quality control, and anomaly detection.



Dr. Princy Randhawa received a Letter of Appreciation from INTI International University, Malaysia, for conducting a hands-on workshop titled "Improve Research Quality, Save Time with AnswerThis" on 19 November 2025. The workshop focused on AI-powered research tools and best academic practices. Her practical approach and clear explanations enhanced participant learning. The session significantly contributed to research skill development.

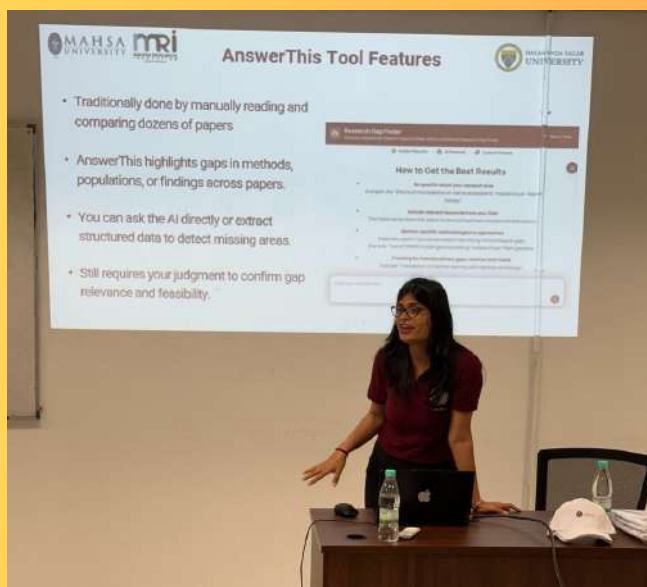


Faculty Activities & Achievements

Dr. Princy Randhawa was appreciated by the University of Malaya, Malaysia, for conducting a hands-on research workshop on 22 November 2025. The session provided practical exposure to modern research tools and methods. Participants benefited from her ability to simplify complex research processes. Her contribution strengthened research capacity among faculty and students.



Dr. Princy Randhawa was recognized by MAHSA University, Malaysia, for her outstanding contribution as an Academic Research Expert Speaker at the 5th MAHSA International Conference on Industrial Revolution, Information and Communication Technology (Mi-IRICT 2025) held on 21-22 November 2025. Her expert talk provided valuable insights into emerging research trends. The session greatly benefited faculty members, researchers, and students. This recognition highlights her expertise and academic leadership.

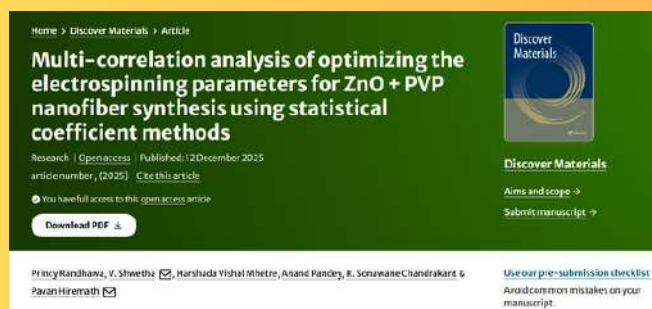


Faculty Activities & Achievements

Dr. Princy Randhawa served as a Session Organizer at the International Conference on Artificial Intelligence and Networking (ICAIN 2025), jointly organized by BITS Pilani, Dubai Campus, IIIT Allahabad, and Universal Innovators, held on 6-7 October 2025. She played an important role in coordinating technical sessions and ensuring effective knowledge exchange. Her contribution supported the successful execution of the conference. This reflects her active involvement in international academic events.



Dr. Princy Randhawa has published three research papers in reputed international journals during the academic year. Among these, two papers are published in Q1 journals and one paper in a Q2 journal, reflecting the quality and impact of the research work. The publications focus on advanced areas such as nanomaterials, artificial intelligence, sustainable food systems, and intelligent agronomy. These contributions highlight her active involvement in high-quality, interdisciplinary research with global relevance.



Faculty Activities & Achievements

Dr. Govind Kumar Pandey participated in an online technical webinar organized by the IEEE Antennas and Propagation Society (AP-S) in association with the IEEE Rajasthan Sub Section and Indian Institute of Technology Jodhpur. The webinar, held on 7 November 2025, focused on the advanced topics “Advanced Antennas for Space Applications: Challenges and Innovations” and “Near-Field Meta-Steering Systems for Future Wireless Communications.” The session provided in-depth insights into emerging antenna technologies, space communication challenges, and next-generation wireless systems, enriching participants’ understanding of contemporary research trends in antennas and propagation.



Dr. Govind Kumar Pandey was recognized for his outstanding contribution as a Reviewer at the 5th International Conference on Advancement in Electronics & Communication Engineering (AECE-2025). The conference was technically co-sponsored by the IEEE UP Section and held on 21st and 22nd November 2025. The conference was jointly organized by the Department of Electronics and Communication Engineering (ECE) and the Department of Computer Science and Engineering (CSE), Raj Kumar Goel Institute of Technology (RKGIT), Ghaziabad, Uttar Pradesh. His role as a reviewer contributed significantly to maintaining the academic quality and technical rigor of the conference proceedings.



Faculty Activities & Achievements

Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), School of Engineering, has been selected as a Tutor and Teaching Assistant for the prestigious 12-week NPTEL course titled “Foundations of Deep Learning: Concepts and Applications”, offered by IIT Madras. The course is scheduled to be launched in January 2026 through the NPTEL online platform. As part of this significant academic responsibility, recording sessions were conducted at the Indian Institute of Science (IISc), Bengaluru, on 15th and 19th December 2025, involving expert-led content development and instructional support. This accomplishment underscores Prof. Trupthi Rao’s strong academic expertise and sustained contributions in the domains of Deep Learning and Artificial Intelligence.



Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented a research paper titled “Analyzing the Cancer Risk of Mortality: Using Fuzzy AHP And Fuzzy TOPSIS Method” at the AICTE sponsored International Conference on Agrivoltaics Innovations Focusing on Smart Farming with Renewable Energy, Machine Learning and Embedded Technologies (IC-AISMART 2025) organized by Department of Electronics and Communication Engineering at JSS Academy of Technical Education, Bengaluru (JSSATEB) from 11th Dec - 12th Dec 2025.



Faculty Activities & Achievements

Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented a research paper titled “Evaluating Factors Influencing Electric Vehicle Adoption: A Fuzzy AHP Process” at the AICTE sponsored International Conference on Agrivoltaics Innovations Focusing on Smart Farming with Renewable Energy, Machine Learning and Embedded Technologies (IC-AISMART 2025) organized by Department of Electronics and Communication Engineering at JSS Academy of Technical Education, Bengaluru (JSSATEB) from 11th Dec - 12th Dec 2025.



Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented a research paper titled “Stock market volatility analysis using fuzzy logic: Fuzzy AHP and TOPSIS” at the AICTE sponsored International Conference on Agrivoltaics Innovations Focusing on Smart Farming with Renewable Energy, Machine Learning and Embedded Technologies (IC-AISMART 2025) organized by Department of Electronics and Communication Engineering at JSS Academy of Technical Education, Bengaluru (JSSATEB) from 11th Dec - 12th Dec 2025.



Faculty Activities & Achievements

Dr. Sumit Kr. Yadav, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented a research paper titled “IntelliCam: AI Smart Surveillance Camera” at the 2025 IEEE 9th International Conference on Computational Systems and Information Technology for Sustainable Solutions (CSITSS-2025) held from 20-22 November 2025 Organized by RV College of Engineering, Bengaluru, India.



Prof. Upasana Shil, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), contributed as the Faculty Coordinator for the J-Hack: Think in Objects, Build in Java, organized by the Department of Computer Science and Engineering (AI & ML), School of Engineering, Dayananda Sagar University. She actively supported the planning and smooth execution of the event, providing academic guidance and coordination to ensure an effective learning experience for the participants.



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