Volume-3 Issue-5

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SOE-BULLETIN

The Official Newsletter of **School of Engineering**

MAY 2025

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SCHOOL OF ENGINEERING

Vision

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

Mission

1. Design and deliver contemporary engineering curricula to address regional and global needs while emphasizing ethics, values, integrity and regional relevance.
2. Carryout 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.
3. Develop regional and national leaders to advance the society and economy.

INDEX

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INTERNATIONAL ACTIVITIES

Seminar on “Embedded Systems in Intelligent Industry”

The Department of Artificial Intelligence and Robotics at Dayananda Sagar University, in association with ROBOVERSE, organized a seminar on "Embedded Systems in Intelligent Industry" on 19th May 2025 at 2:00 PM in Lecture Hall 3, School of Engineering. The session aimed to explore the growing importance of embedded systems in modern industrial applications. The seminar featured Mr. Deepak K. C., CEO of SiliVal and an alumnus of IIM Bangalore and TBS, France, as the keynote speaker. Drawing from his vast experience in technology and innovation, Mr. Deepak shared valuable insights into how embedded systems are transforming industries such as robotics, automation, and smart manufacturing. He emphasized the integration of AI and IoT in embedded technologies and discussed their impact through real-world case studies.
The session concluded with an engaging Q&A, where students interacted directly with the speaker to gain clarity on various industry trends and applications. The seminar was especially beneficial for students interested in electronics, intelligent systems, and automation. The event was organized under the guidance of Dr. Gangadhar T. G., Dr. Rupam Bhaduri, and Dr. Bharath Kumar S., with Dr. Pramod Kumar Naik serving as Chairperson. The department extends its heartfelt thanks to Mr. Deepak for his inspiring session and to the organizing team for making the event a success.


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“Building Health Tech Ecosystem Using Campus Talent”

The Department of Artificial Intelligence and Robotics Engineering at Dayananda Sagar University organized an insightful session titled "Building Health Tech Ecosystem Using Campus Talent" on 21st May 2025 at 2:00 PM in A506, School of Engineering. The session featured Mr. Subramanian Sivakumar, Co-Founder of Talencia Global, who shared his experience of building a unicorn startup in the U.S. healthcare sector by leveraging engineering talent from Indian campuses. He discussed the journey of scaling a startup, the challenges faced, and the crucial role of campus innovation, interdisciplinary skills, and global collaboration in driving success. The session motivated students to think beyond traditional career paths and embrace entrepreneurship and innovation early in their academic careers. It also offered valuable insights into the global health tech ecosystem. The department extends its gratitude to Mr. Sivakumar and the organizing team for making the event a success.

“Advance Your Career Through MS/MBA Programs in Germany”

The Department of CSE (Data Science), in collaboration with the Office of International Affairs, DSU, organized a session titled “Advance Your Career Through MS/MBA Programs in Germany” on 20th May 2025. The event was coordinated by Dr. Shaila S. G., Professor and Chairperson, along with Prof. Shivamma D. and Prof. Monish L. Students from the 4th and 6th semesters actively participated, showing strong interest in higher education opportunities in Germany. The keynote speaker, Dr. Manjula Mundakana, Senior Advisor for Science, Technology, and Political Affairs at the German Consulate in Bangalore, delivered an engaging talk on Indo-German collaboration in science, technology, and research. She discussed her role in facilitating German delegations to Karnataka and Kerala and highlighted partnership opportunities with Indian institutions. Dr. Mundakana provided valuable guidance on navigating the German education and research system, including information on scholarships, funding, and career prospects. She encouraged students to engage in global research networks and leverage consular support to pursue academic and professional opportunities in Germany.

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WORKSHOPS / SKILL DEVELOPMENT PROGRAMS

Workshop on “Game Development and Animation VFX”

The Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University successfully organized a three-day hands-on workshop on “Game Development and Animation VFX” from 5th to 7th May 2025. The workshop aimed to provide 6th-semester B.Tech CSE students and faculty members with practical exposure to game development and animation, aligning with the newly introduced courses in the curriculum. With 60 active participants, the workshop offered a comprehensive overview of essential concepts, including the Unity interface, C# scripting, game physics, fundamentals of 2D and 3D game development, and the basics of animation and VFX implementation. The sessions were designed to be highly interactive, allowing participants to engage in hands-on exercises, build simple game prototypes, and explore visual effects techniques. The sessions were led by expert resource persons from the Asian Institute of Design, Bengaluru—Mr. Bhaskar Jyoti Bora and Mr. Ahamed Abdullah, whose industry experience and engaging teaching style were greatly appreciated by attendees. Their guidance ensured that the workshop ran smoothly and met its learning objectives effectively. The event was coordinated by Dr. Praveen Kulkarni, Prof. Shilpa Sudheendaran, Prof. Bharath B, and Prof. Prolay Biswas. Their efforts contributed to the successful execution of the workshop, which received excellent feedback and helped bridge academic learning with real-world applications in gaming and animation.


Ramanagara, Karnataka, India

“Industry Partnered Competitive Programming Training (Bootcamp 2.0)”

The Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, conducted Bootcamp 2.0 to 3rd Year B.Tech Students from 19th May 2025 to 23rd May 2025. Veranda, in association with Six Phrase and Talentely, successfully conducted a week-long Industry Partnered Competitive Programming Training at Dayananda Sagar University. The event was tailored specifically for 3rd-year B.Tech students, aiming to equip them with advanced problem-solving techniques, algorithmic thinking, and exposure to industry practices in software product development. The objective is to enhance students’ proficiency in competitive programming. To bridge the gap between academic learning and real-world coding standards. To prepare students for product-based company placements with support from experienced industry professionals. The training program received highly positive feedback from students and faculty alike. Participants left the event with boosted confidence, enhanced technical skills, and a clearer path toward a successful tech career. The collaboration between Veranda, Six Phrase, Talentely, and Dayananda Sagar University stands as a strong example of industry-academia synergy aimed at talent development.

“Yun Na Yarn?”
A Scriptwriting & Cinematography Workshop

The Department of Computer Science, in collaboration with the club Echoes of Lumiere, hosted a workshop titled “YUN NA YARN” on 13th May 2025 at Lecture Hall–2. Coordinated by Dr. Rochna Roy and Dr. V. Sreemathy, the event featured Dr. Arun Balodi (Guest of Honour and Chairperson, ECE), along with Dr. Sai Prasad Nayak and Prof. Arjun Krishnamurthy. The workshop aimed to inspire aspiring filmmakers through sessions on scriptwriting and cinematography. It began with a prayer and a welcome address, followed by an introduction to Echoes of Lumiere. In the scriptwriting session, student presenters explored screenplay structure, character development, dialogue writing, and formatting using examples from popular films. After a brief refreshment break, a short film screening and critique exercise took place. The cinematography session focused on visual storytelling elements such as framing, camera angles, lens use, and color grading. Dr. Balodi gave an inspiring talk and unveiled the poster for the upcoming filmmaking competition. The event concluded with a vote of thanks, celebrating its success in fostering creativity and hands-on learning. Participants were reminded of the closing ceremony on 22nd May, where final submissions will be screened and awarded.

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WEBINARS / SEMINARS / TECHNICAL TALKS

Guest lecture on “Manufacturing of Low-Volume and Prototype Composite Aircraft Structures.”

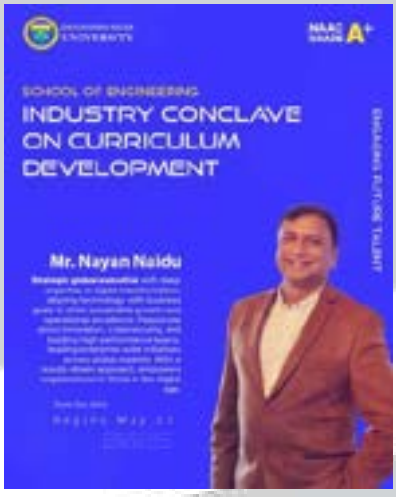
On May 7, 2025, the Department of Aerospace Engineering, School of Engineering (SoE), Dayananda Sagar University (DSU), successfully organized an enlightening guest lecture on the topic “Manufacturing of Low-Volume and Prototype Composite Aircraft Structures.” This initiative was part of the department’s ongoing efforts to connect academic learning with industry-driven knowledge in the field of aerospace engineering. The session witnessed active participation from students of the 4th and 6th semesters, who gained valuable exposure to advanced concepts and techniques related to composite material applications in aircraft manufacturing. The lecture covered critical aspects such as material selection, structural design considerations, prototyping challenges, and scalable production strategies, all of which are highly relevant in today’s evolving aerospace industry. The department extends heartfelt thanks to the esteemed speaker for delivering such a practical and inspiring session and contributing to the professional development of future aerospace innovators at DSU.

Seminar on “IoT & Hardware Security”

The Department of Computer Science and Engineering (Cyber Security), in association with the CySec Club, organized an enlightening seminar on "IoT & Hardware Security" on Monday, 28th April 2025. The event was hosted virtually via Google Meet from 03:00 PM to 04:00 PM, drawing participation from students, faculty, and cybersecurity enthusiasts. The keynote speaker for the session was Mr. Teja Chintalapati, Senior Program Manager at the Data Security Council of India (DSCI). He shared his deep insights into the growing challenges of securing IoT ecosystems and hardware infrastructure in the age of interconnected devices. His expert perspective covered critical threats, best practices in embedded device security, and evolving trends in hardware-layer protection. This seminar served as an excellent opportunity for students to understand real-world applications and threats related to IoT and hardware systems, fostering a culture of research and awareness in next-generation security solutions.

Guest lecture on “Industry Conclave on Curriculum Development”

The Training and Placement Cell, in association with the Department of CSE (Cyber Security), organized a guest lecture on 23rd May 2024 at Lecture Hall 2, featuring Ms. Sowmya N Swamy, Vice President, Information Security Associate Manager at Wells Fargo. Over 170 students from the second and third years, along with faculty members, actively participated in the session. Ms. Sowmya, with over 17 years of industry experience, provided deep insights into cybersecurity trends, real-world threat scenarios, data protection strategies, and career opportunities in the domain. Topics covered included AI-driven threats, ethical hacking, cyber hygiene, and industry certifications. The session effectively bridged the gap between academic learning and industry practices, inspiring students to explore careers in cybersecurity. The event was coordinated by Prof. Naveen Kulkarni and Mr. Sagar B S, Placement Officer, DSU.



“Alumni Tales: A Data Science Journey”

The Department of CSE (Data Science) successfully hosted an Alumni Meet & Talk titled “Alumni Tales: A Data Science Journey” on 6th May 2025. The event, organized by Prof. Shivamma D, Prof. Monish L, and Prof. Prapti Bhattacharjee, was attended by students of the 4th and 6th semesters and featured alumni from the department’s first graduating batch (2020–24). The session began with a warm welcome by Dr. Shaila S G, Professor & Chairperson, who set a reflective tone by sharing cherished memories of the department’s founding batch. The alumni talks began with Rahul Srikanth, Technical Product Manager at EY, who gave an insightful presentation on the role of a project manager, emphasizing leadership, coordination, and strategic thinking. Following him, Ayesha Malaika, Chief Operating Officer at Acolyteai.in, shared her personal journey of growth, highlighting the importance of staying committed to one’s goals even amidst uncertainty. The session ended on a high note with Varun N from Acolyteai.in, who has also made a mark as a screenwriter, director, and actor.


Bengaluru, Karnataka, India


Ramanagara, Karnataka, India


Bengaluru, Karnataka, India


Bengaluru, Karnataka, India

Tech Talk on “Connected AI In Trucks & Buses”

The Department of Artificial Intelligence and Robotics (AIR) at Dayananda Sagar University hosted a seminar-tech talk on “Connected AI in Trucks & Buses” to explore how AI is transforming transportation. The session began with opening remarks from Dr. Pramod Kumar Naik, Chairman of AIR, who spoke on the role of ADAS in modern vehicles. The keynote was delivered by Mr. Jayaprakash Govindaraju, a distinguished leader from Daimler Truck Innovation Centre, India. He offered deep insights into emerging AI trends, challenges, and career prospects in the automotive industry. The event was organized by Dr. Gangadhar T G, Dr. Rupam Bhaduri, and Dr. Bharath Kumar S, who facilitated meaningful interactions between students and industry professionals. Mr. Govindaraju discussed key applications of AI in transportation, including Enhanced Fleet Management, Predictive Maintenance, Autonomous Driving, Route Optimization, and Environmental Sustainability. He highlighted how AI enables real-time decision-making, improves vehicle reliability, enhances road safety, and supports the shift toward greener mobility. The session also emphasized the importance of interdisciplinary skills in AI, data science, and embedded systems for future careers. Mr. Govindaraju advocated for stronger academia-industry collaboration through internships, workshops, and joint research.


DAIMLER TRUCK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“Industry-Academia Collaboration: A Step Forward in Scientific Engagement”

The Department of Chemistry, School of Engineering, Dayananda Sagar University, conducted a talk in collaboration with Inkarp Instruments Private Limited, Hyderabad, on the topic titled “Fundamentals and Recent Trends in Thermal Analysis" on 23.5.2025 from 9:00 AM to 10:30 AM. The resource person of the session was Mr. Sivakumar Ganapathy, Program Manager, Inkarp Instruments, Hyderabad. The session was highly engaging, with a dynamic interaction with the faculty members and research scholars. Dr. Sai Prasad Nayak and Dr. Bhavana Rikhari, Assistant Professor, Department of Chemistry, chaired the talk as conveners. 30 participants, mainly consisting of research scholars from various departments, attended the talk. All faculty members from the Department of Chemistry were present during the talk. This collaboration aims to enhance research capabilities and scientific knowledge dissemination.

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EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES

“DSUMUN II: Beyond Borders – Diplomacy Without Limits”

Dayananda Sagar University proudly hosted DSUMUN II: Beyond Borders – Diplomacy Without Limits, a premier Model United Nations conference from April 19 to 21, 2025, in collaboration with the ORG Foundation and MUNSOC. This three-day event was a confluence of dialogue, diplomacy, and dynamic youth leadership, featuring six dynamic committees—including a special G20 Summit, DISEC, UNSC, IPC, UNHRC, AIPPM, and 160 delegates participating from different institutes. The inaugural ceremony was graced by Dr. C. N. Manjunath, Member of Parliament (Bengaluru Rural) and former Director of the Sri Jayadeva Institute of Cardiovascular Sciences and Research, as the Chief Guest. In valedictory, the conference also welcomed eminent personalities such as Air Marshal Anil Khosla (Retd.), former Vice Chief of Air Staff; Yashi Dhariwal, Head of the Political and Economic Department at the Honorary Consulate of Cambodia; Dr. Amit Bhatt, Vice Chancellor of Dayananda Sagar University; and Mr. Hritik Singh, Project Manager at the United Nations Development Programme (UNDP)—each contributing to the global and interdisciplinary spirit of the conference. Under the leadership of Shashwat Saini (Secretary General), Suraj S. (Director General), and Aditya N. (Charge d’Affaires), and mentored by Dr. Seema Tharannum and Dr. Sai Prasad Nayak, DSUMUN II invited students to step into the roles of global policymakers, challenge conventional diplomacy, and embrace the values of borderless cooperation and visionary leadership.


DSU
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“ROBOSOCCER-25: The Ultimate Soccer Battle”

The Department of Electronics and Communication Engineering at Dayananda Sagar University hosted ROBOSOCCER-25: The Ultimate Soccer Battle on April 25–26, 2025, under the ELECTROBLITZ Club. The national-level event brought together 144 students from 36 teams across India to compete with autonomous soccer-playing robots. The event began with a formal inauguration featuring Chief Guest Dr. Ambar Bajpai from GITAM University and Guest of Honour Mr. Vinod Shankar from AIC-DSU. They shared industry insights and encouraged students to excel in robotics and AI. Academic leaders highlighted the importance of practical learning, and a departmental magazine was launched to promote creativity. The event was organized by Dr. Divyashree H. B., Faculty Advisor of ELECTROBLITZ. The competition had two rounds: an obstacle course testing robot navigation, followed by knockout robot soccer matches judged on agility and strategy. After intense rounds, the top teams advanced to the finals. Pavan from Rajarajeshwari College won first prize, Vishakh Rakshith from DSU was second, and Team Tech X-2 from Rajarajeshwari College took third. Special awards recognized outstanding performances in different categories. The valedictory ceremony was led by DSU’s Registrar, Dr. Puttamadappa C, and other dignitaries. Winners were announced by Jury President Ms. Aarthi Nayak Ullal. ROBOSOCCER-25 provided an excellent platform for students to showcase skills, creativity, and teamwork while promoting innovation in robotics.


ELECTROCLIPS
MAGAZINE
UNVEILING

“INTERDISCIPLINARY SYMPOSIUM : AI in NEUROSCIENCE”

The Department of Computer Science, School of Engineering (SoE), in collaboration with CDSIMER, successfully hosted an interdisciplinary symposium on the theme of Artificial Intelligence (AI) and Neuroscience on 15th May 2025 at Dayananda Sagar University. The event aimed to explore the growing intersection between AI technologies and the medical sciences, particularly in the areas of neurophysiological research, neurosurgery, and the diagnosis and treatment of neuropsychiatric disorders. Drawing an enthusiastic response, the symposium welcomed around 200 participants, including faculty members, researchers, and students from both CDSIMER and SoE. The audience reflected a rich blend of disciplines, with approximately 50 medical students and the rest from engineering backgrounds. Attendees gained deep insights from expert talks and discussions focused on real-world applications of AI in neuroscience. The event was graced by eminent guests. The Chief Guest, Dr. T.N. Sathyaprabha, Associate Dean and Professor at NIMHANS, underscored the value of collaborative research between the medical and engineering communities. She emphasized how such partnerships can lead to breakthroughs in patient care and medical innovation. Dr. A.C. Ashok, Director of CDSIMER and Guest of Honor, also spoke about the need for interdisciplinary dialogue to effectively address modern healthcare challenges. The symposium was coordinated by Prof. Arjun Krishnamurthy and Dr. Renuka Devi, whose efforts ensured a smooth and enriching experience for all participants. The event marked a significant step toward fostering academic synergy and practical collaboration between the fields of AI and medicine.



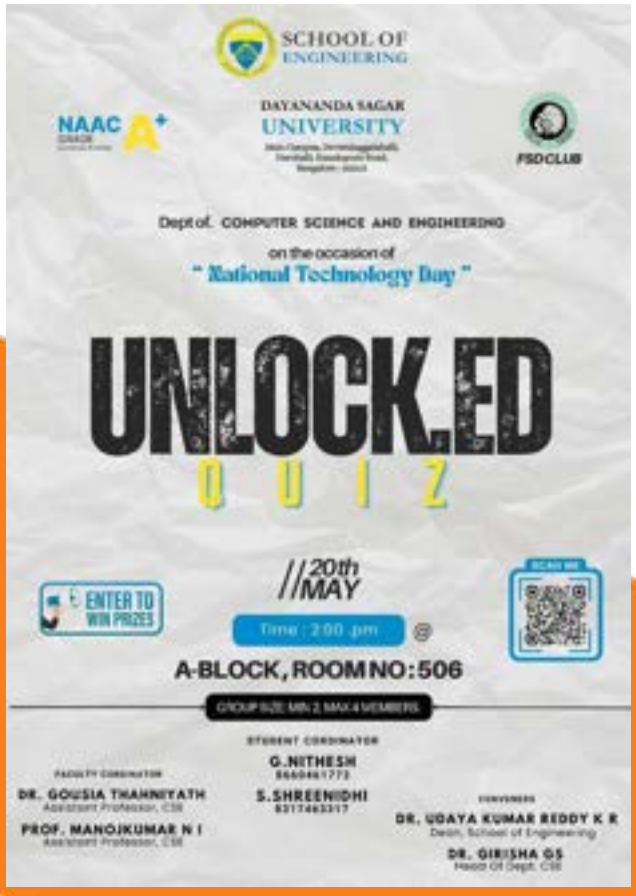






“FSD Club Activity-Unlock. ED QUIZ”

The Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University. The event Unlock.Ed was conducted on 20th May 2025 at 1:45 PM as part of the National Technology Day celebrations by the FSD Club. It was structured as a multi-round quiz competition focusing on general technology knowledge, coding logic, and current trends. The inauguration was graced by faculty members and guests, who motivated participants with their presence. The quiz consisted of multiple rounds with escalating difficulty, covering topics such as recent tech advancements, programming outputs, company innovations, binary arithmetic, and tricky logic-based questions. Participants were grouped into teams and competed through elimination-based rounds. A unique clue hunt round was introduced to blend physical engagement with analytical thinking, where participants followed a trail of tech-related riddles to progress to the next stage. The use of creative question formats, multimedia elements, and live scoring added energy and excitement to the event. The final round saw top teams battle it out in a rapid-fire format. The event concluded with the announcement of winners.

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“Awareness on IPR: Protecting Innovation”

An insightful session on “Awareness on IPR: Protecting Innovation” was successfully organized by the Department of Computer Science and Engineering in collaboration with the Department of Aerospace Engineering, in celebration of Intellectual Property Rights Day on 22nd May 2025. Mr. Vineeth Kumar S. R., Project Engineer at KSCST, delivered an engaging and informative talk emphasizing the significance of intellectual property and the vital role it plays in protecting innovations in today’s rapidly evolving technological world. The event was graced by Dr. Girisha G. S., Chairperson of the Department of Computer Science and Engineering; Dr. Nagaraj S. R., Chairperson of the Department of Aerospace Engineering; and Dr. Basavaraj N. Hiremath, Professor in the Department of Computer Science and Engineering, who addressed the students and underscored the relevance of IPR in academia and research. The session, held in Lecture Hall 1 (LH1) from 9:15 AM to 10:30 AM, saw enthusiastic participation from students and faculty members alike. The event was well-coordinated by Dr. Savitha Hiremath, Prof. Nandini K., Prof. Sripad Kulkarni S., and a dedicated group of students. We extend our heartfelt gratitude to Mr. Vineeth Kumar for his valuable insights and to all those who contributed to making the event a resounding success!


Ramanagara, Karnataka, India


Ramanagara, Karnataka, India

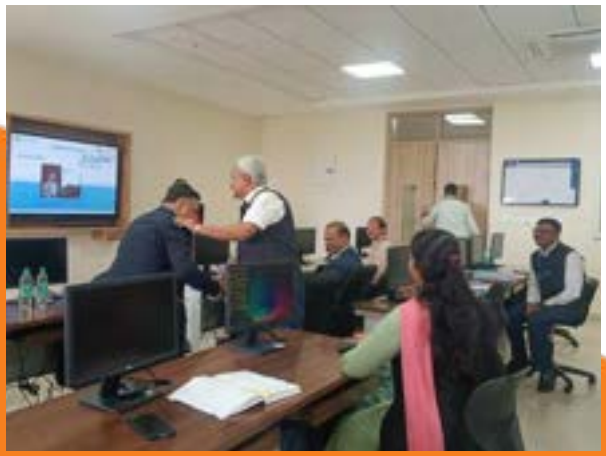

DAYANANDA SAGAR UNIVERSITY
Awareness on IPR:Protecting Innovation
objectives

“Industry Conclave” - SoE, DSU

The School of Engineering at Dayananda Sagar University successfully organized the Industry Conclave on Curriculum Development on 23rd May 2025 at the DSU Harohalli Campus. This important event served as a platform to bridge academia with industry expectations by engaging a diverse panel of seasoned professionals. The conclave proved to be a transformative step toward fostering innovation, adaptability, and career readiness among engineering students.

“Industry Conclave” - CSE(AIML)

The Department of Computer Science and Engineering (AI & ML) hosted a curriculum review session with industry experts Mr. Santosh Rebello (Manager, MuleSoft at Salesforce) and Dr. Pradeep Desai (CEO, Thalesat Innovations Pvt. Ltd.). The session, welcomed by Dr. Jayavrinda Vrindavanam (Chairperson, CSE AI & ML) and Prof. Pradeep Kumar, included faculty, BOS members, and SoE Dean Dr. Udaya Kumar Reddy K R. The experts praised the department’s advanced, industry-aligned curriculum, highlighting courses like Generative AI, FinTech, and MLOps, and recommended adding Agentic AI in the sixth semester. Mr. Santosh emphasized current industry needs, urging greater focus on emerging domains and tools like MuleSoft, AWS Bedrock, and Google BigQuery. Key discussions covered advancements in Predictive, Generative, and Agentic AI, robotics, and expanding electives for interdisciplinary learning. Suggestions included adopting outcome-based education, enhancing foundational courses with real-world applications, encouraging faculty internships, and modernizing teaching methods to bridge academic-industry gaps. Collaborations with institutions like ICMR, NIMHANS, Defence, and NVIDIA were proposed, along with a dedicated Career Consultancy Cell. Value-added courses in Personal Development and Financial Management were also recommended. Real-world AI applications in disability support, defence, legal analytics, and rural healthcare were discussed, emphasizing affordable, localized, and customized AI solutions. The conclave concluded by stressing application-driven learning, interdisciplinary collaboration, and innovative approaches to complex problems.

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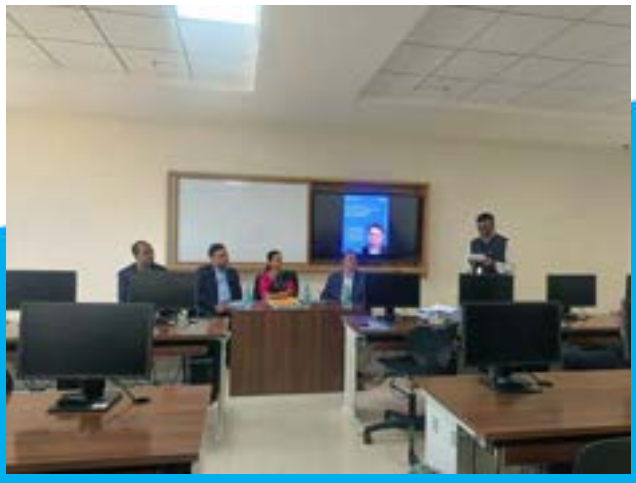


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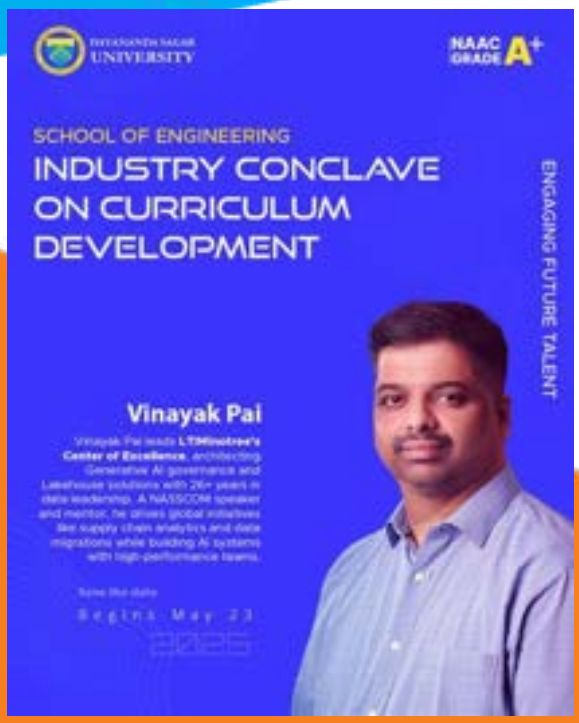
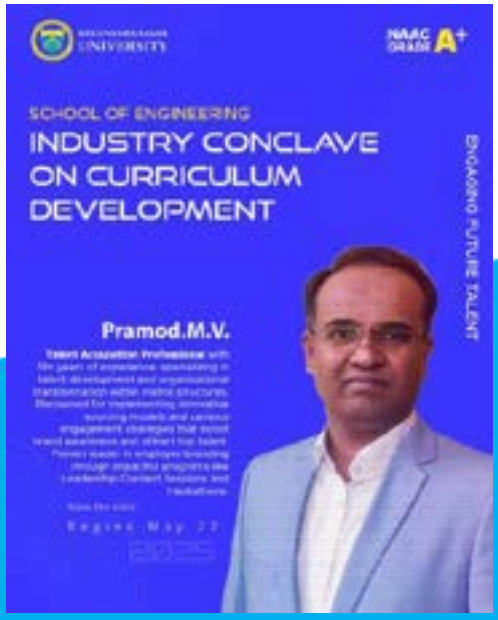
“Industry Conclave” - CST

The Department of Computer Science and Technology (CST) organized an Industry Conclave on 23rd May 2025 with the objective of gathering expert insights to enhance the department’s academic curriculum. The event brought together three distinguished industry professionals: Mr. Ashok Magadum, Founder and CEO of Vidarka Technologies Private Limited, Bangalore; Dr. Tulasi Sunitha Manepalli, Lead Data Scientist and DS & AI Lead & Manager at IBM, Bangalore; and Mr. M. N. Kiran Kumar from Cognizant. These experts shared valuable perspectives on aligning academic content with evolving industry needs. Their suggestions emphasized the integration of emerging technologies such as Artificial Intelligence, Machine Learning, and Cloud Computing into the curriculum, alongside a stronger focus on practical, hands-on learning. They also highlighted the importance of developing soft skills, fostering innovation, and encouraging real-world exposure through internships and project-based learning. The conclave served as a platform for meaningful dialogue between academia and industry, aiming to equip students with the skills and knowledge required to thrive in a competitive and rapidly changing technological landscape.

“Industry Conclave on Curriculum Development” - CSE(DS)

The Department of CSE (Data Science) at Dayananda Sagar University, in collaboration with the Placement Team, organized a Curriculum Review Meeting on 23rd May 2025. Coordinated by Dr. Shaila S G and team, the meeting aimed to align the B.Tech in Data Science curriculum with industry trends. The event featured expert inputs from Mr. Pramod M. V. and Mr. Vinayak Pai of LTIMindtree, and Ms. Mamatha Shanmugam from Capgemini. Key suggestions included adopting Python across courses, integrating Generative AI tools like GitHub Copilot and Power BI Copilot, and making Ethical AI mandatory from the 6th semester. The experts emphasized end-to-end AI project development, introducing Big Data Engineering using cloud platforms (AWS, Azure, GCP, Snowflake, Databricks), and restructuring the CTS course to improve communication and collaboration skills. Additionally, incorporating Global Certifications in Cloud, AI/ML, DevOps, Analytics, and Cybersecurity was recommended. The department committed to implementing these updates to better prepare students for the evolving tech landscape.

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SCHOOL OF ENGINEERING
INDUSTRY CONCLAVE ON CURRICULUM DEVELOPMENT
ENGAGING FUTURE TALENT
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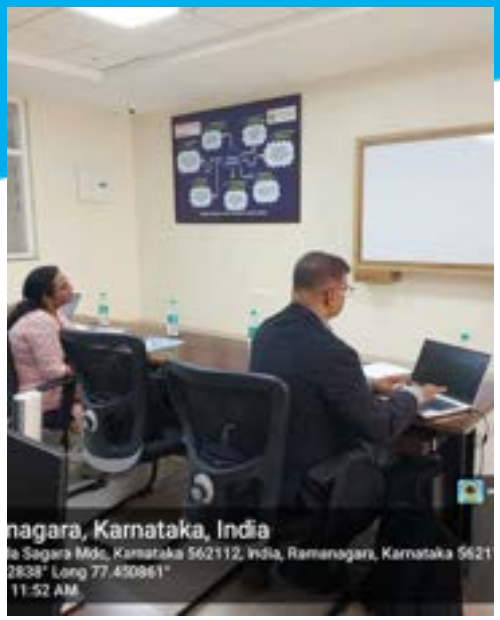
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“CST PROJECT EXPO - 2025”

The CST Project Expo 2025 was inaugurated with a warm welcome to the guests, Mr. Neerav Joshipura, Founder Director of SoftN Enterprises, and Mr. N. C. Sriraman, Co-Founder and MD of Metaphonic Networks Pvt. Ltd., by the Chairperson, Dr. M. Shahina Parveen, Professor, CST, SOE. Dr. Parveen addressed the gathering, highlighting the event and the projects developed by student teams. A total of 15 teams showcased their work across various domains such as E-Commerce, Emergency/Healthcare, Education, Consumer Apps, Security, Logistics, and Sustainability. A short video presentation was followed by live demonstrations by the respective teams. Mr. Joshipura and Mr. Sriraman addressed the audience, commending the students for their innovative and sustainability-focused projects, and appreciated the faculty for their guidance. Faculty and students from various departments visited the expo and shared positive feedback. Awards for the top three projects were presented by Dr. Parveen, along with appreciation certificates for volunteers. The event helped students develop essential skills such as public speaking, use of visual aids, and the ability to explain complex ideas clearly, valuable experience for their academic and professional growth.


WELCOME

“TECH SPARK 2.0”

TECH SPARK 2.0, held on April 26, 2025, at the Department of CSE (AI & ML), Dayananda Sagar University, began with a warm welcome by student emcees who introduced the significance of the event. Dr. Jayavrinda Vrindavanam, Chairperson of the AI & ML Department, greeted the Chief Guest and Guest of Honor, highlighting key technological advancements addressing real-world challenges. She emphasized the importance of interdisciplinary learning and innovation, inspiring students to actively engage throughout the event. The ceremony included a felicitation of distinguished guests, recognizing their valuable contributions and support in making TECH SPARK 2.0 a success. Following this, students presented their projects across three domains: Large Language Models, Healthcare, and Deep Learning & Computer Vision. These presentations showcased the students’ technical expertise, creativity, and problem-solving skills, providing a platform to share innovative ideas and receive constructive feedback from guests, faculty, and peers. Winners in the Large Language Models domain included Sri Bharath Sharma P (ENG22AM3005), Yudhajit Jana (ENG22AM3021), and Shriyans Arkal (ENG21AM0117), with the project “Enhancing Medical Diagnostics with Vision-Language Models” and Sayli Pankaj Bande (ENG21AM0112) with “Agent Frameworks for VLM-based Medical Diagnosis”. In the Healthcare domain, winners were Jahnavi A (ENG21AM0050), K Nageshwari Durga (ENG21AM0053), Kunjan Kumar Singh (ENG21AM0060), and Poornima M Nerale (ENG21AM0085), recognized for the project “Digital Display using Gen AI.” Shruti Nigam (ENG21AM0120) won in the Deep Learning and Computer Vision domain for her project on an “Adaptive Machine Learning Framework for Environmental Monitoring.” Overall, TECH SPARK 2.0 was a dynamic event that celebrated innovation and student excellence.






Kanakapura, Karnataka, India



“AERO PROJECT EXPO - 2025”

On 24/5/25 department of Aerospace Engineering organised a Project Expo titled “AeroExpo 2025” around 60 students participated, totally 18 projects in Aerospace domain was exhibited and the event was successfully concluded with announcements of best project for the year 2024-25 Mr Sandesh Naik from Divisional Senior Manager Cyient Ltd, Bengaluru, India was the judge for this event.

“PROJECT EXPO 25” - ECE

The Department of Electronics and Communication Engineering (ECE), along with the ELECTROBLITZ Club and IEEE DSU Student Branch, hosted Project Expo 25 on May 24, 2025, at Dayananda Sagar University, Harohalli. The event showcased over 40 innovative final-year student projects in areas like Quantum Computing, Machine Learning, Embedded Systems, and Assistive Technologies, highlighting real-world applications and cutting-edge research. Notable winning projects included “Hybrid Quantum Machine Learning for Crop Disease Prediction and Forecasting” by Raghav (ENG21EC0078), “Vision-Enabled Voice-Controlled Prosthetic Hand with Embedded Processors” by Anika (ENG21EC0099), and “Machine-Learning-Driven Framework for Industrial Energy Monitoring” by Vikram (ENG21EC0112). These projects demonstrated excellence in innovation, practical application, and technical design. The expo was attended by distinguished guests from academia and industry, who also served on a jury panel to evaluate projects based on creativity, design, and impact. Interactive sessions between students, faculty, and experts provided valuable feedback and mentorship. The event was expertly coordinated by faculty and student leaders, ensuring smooth execution. The launch of the ECE Project Chronicles – 2025, which documents top projects, added to the day’s significance. Overall, Project Expo 25 celebrated technical talent, teamwork, and innovation, preparing students for future engineering challenges.

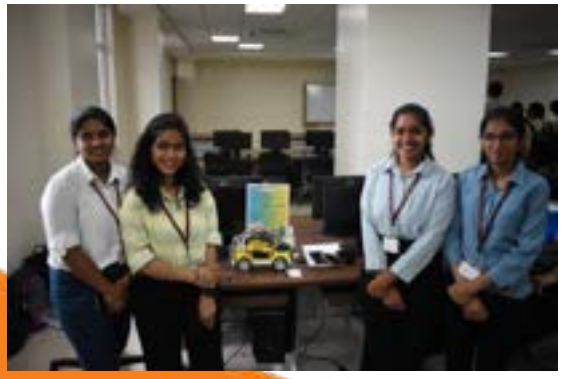

ECE PROJECT EXPO


ECE PROJECT EXPO


ECE PROJECT EXPO 2025

“Project Expo 2K25” - CSE

The Department of Computer Science and Engineering conducted ProjectExpo 2K25, an event organized for 8th-semester CSE students to showcase their major projects on 24th May 2025. The main purpose of the event was to provide students with a platform to demonstrate their technical skills, creativity, and innovative thinking developed over the course of their academic journey. Out of 136 participating teams, 24 were shortlisted based on predefined evaluation criteria by the review panel members. These teams presented their projects to a panel of industry and academic experts, who assessed the projects on parameters such as problem identification, technical depth, innovation, implementation, and presentation. Project Expo 2K25 successfully fostered a spirit of innovation and collaboration, marking a memorable culmination of the students’ academic project efforts. The Expert Panel members were Ms. Anu Ravi, Vice-President of ANZ, and Mr. Mekala V Reddy, Program Leader, IBM.





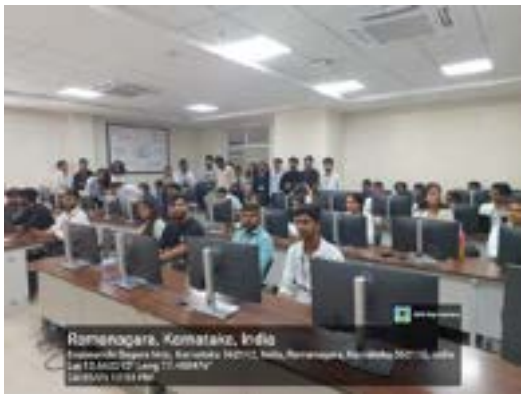






“Major Project Expo: MIND SPARK 2025” - CSE(DS)

The Department of Data Science organized its Major Project Expo on 24th May 2025 for 8th-semester students, providing a platform to showcase their final-year projects to peers, faculty, and industry experts. Fifteen teams participated, presenting innovative solutions to real-world problems using advanced data science techniques. The expo was inaugurated by Dr. Shaila S. G., Chairperson of the Department, who highlighted the importance of innovation and experiential learning. Projects such as Video Steganography, Emotion Recognition using Deep Learning, Smart Traffic Monitoring, and Healthcare Analytics demonstrated practical applications of AI, ML, and data visualization. Mr. Vinod D. from EY, RMZ Infinity, served as the judge, offering insightful feedback and encouraging students to align their work with industry standards. Faculty mentors guided and evaluated the teams throughout the process. Certificates of excellence were awarded to the top three teams. The expo not only enhanced students' presentation and communication skills but also fostered collaboration, innovation, and professional networking. The event concluded with a vote of thanks and group photographs, reflecting the department’s commitment to academic excellence and industry preparedness.



“TechSpark MATLAB Expo”

The Department of CSE (Data Science), in collaboration with the IEEE Student Chapter ITS, organized Techspark MATLAB Expo 2025 on 24th May 2025. The event was coordinated by Dr. Shaila S. G., Chairperson, along with Prof. Shivamma D. and Prof. Monish L., and saw enthusiastic participation from 4th-semester A and B section students. The resource person, Ms. Nisha U. N., Programmer Analyst at Cognizant, engaged with students during the expo, which served as an academic-industry interface showcasing innovative student projects using MATLAB. Projects covered areas like data science, signal processing, machine learning, image processing, control systems, and simulation. Students presented mini-projects that demonstrated practical applications of classroom concepts. The expo aimed to promote hands-on problem solving, coding proficiency, and teamwork while offering exposure to industry tools and expert feedback. It reinforced the department’s commitment to experiential learning and innovation.

“Bright Minds Expo 2025”

The Department of Data Science at Dayananda Sagar University organized the Bright Minds Expo on 27th May 2025 for 6th-semester students, offering a platform to showcase innovative projects applying data science to real-world problems. The event fostered creativity, critical thinking, and collaboration among students and faculty. Inaugurated at 10:30 AM, the expo began with a welcome by the Chairperson, followed by remarks from Dr. Basavaraj N. Hiremath (Chief External Panel Member) and Pro Vice Chancellor Dr. Prakash S. Dr. Hiremath commended the project variety and offered suggestions for enhancement. Students presented work in Machine Learning, Deep Learning, NLP, Computer Vision, and Data Visualization, evaluated by internal and external reviewers based on innovation, execution, relevance, and presentation. The interactive setup encouraged peer learning and improved students' communication and technical skills. Concluding at 3:00 PM with a vote of thanks, the expo offered valuable presentation experience and identified standout projects for future development, publication, or incubation—bridging academic learning with industry relevance.

“BOARD OF STUDIES – MEETING” - CST

The Board of Studies meeting was conducted on 24/05/2025 at the Department of Computer Science & Technology, Dayananda Sagar University. Dr. M. Shahina Parveen, Professor and Chairperson of the Department of Computer Science and Technology, began the meeting by welcoming the members of the BOS and the Department Curriculum Committee. Dr. M. Shahina Parveen briefed all attendees on the department's accomplishments. The main agenda was to discuss the scheme & syllabus for the batches 2022-26, 2023-27,2024-28, Department Vision, Mission, PEOs, and PSOs. (Inclined with institutional vision, mission), Implementation of NEP, Courses on Employability, Entrepreneurship, Skill development, Percentage of new courses introduced and MOOC Courses for credit transfer, Minor Degree & Honours degree of CST, List of programs indicating course, credit/elective in the CBCS program structure. Mr. Neerav Joshipura (Founder Director, SoftN Enterprises, DSU, Bengaluru), Mr. N. C. Sriraman (Co-Founder, MD, Metaphonic Networks Private Limited), and internal committee members joined the meeting and reviewed all the schemes and syllabus and shared their suggestions and comments which will be incorporated in the action taken report based on the minutes recorded during the meeting.

“Industry Conclave” - ASE & ME

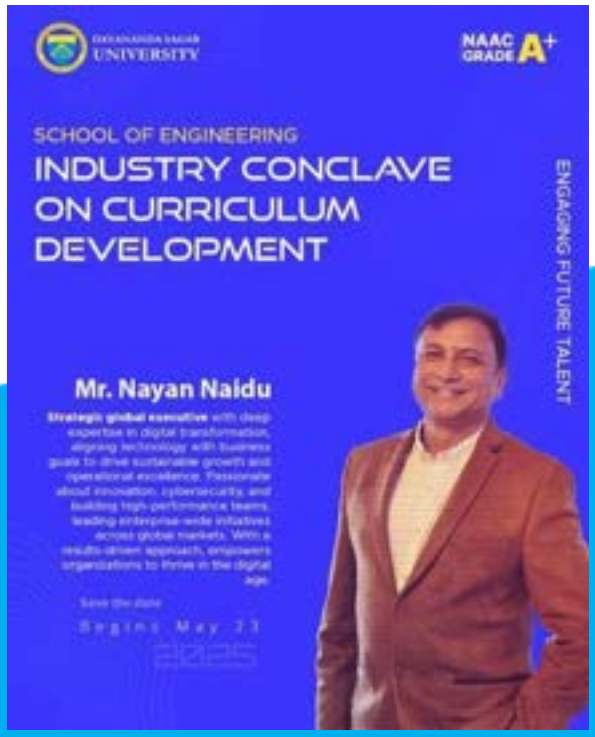
As part of the Industry Conclave 2025, on 23/05/2025, the Department of Aerospace and Mechanical Engineering had the privilege of engaging with two esteemed industry experts—Mr. Praveen Valiyaparambil, Senior Manager – Quality at Collins Aerospace, and Mr. Gopi Krishna Kumar Gopalasamy, Engineering Group Manager – Infotainment at Tata Consultancy Services. With over 18 and 26 years of experience, respectively, both experts shared invaluable insights into bridging academic training with real-world aerospace and automotive industry demands. They recommended integrating standards and processes such as QMS, FAI, PAPA, APQA, and stress analysis into the curriculum. Emphasis was placed on aerospace certification standards, including AS 9100, DO-178, DO-254, ARP4754, DO-160, and regulatory frameworks from the FAA and EASA. Suggestions also included enhancing coursework in safety practices, risk management, and embedded systems (Embedded C, model-based development). From a mechanical perspective, the importance of NVH, structures, vibration, and automotive testing was highlighted. They appreciated the Thermodynamics and Heat Transfer course for its relevance to public sector roles and recommended including modules on CAD/CAM, simulation-based case studies, and Software on Wheels to strengthen design and hands-on engineering capabilities. DevOps was also suggested for exposure to modern automated workflows.

“Industry Conclave” - CSE(CY)

An Industry Conclave was organized on 23rd May 2025 with the objective of reviewing and upgrading the Computer Science and Engineering (Cyber Security) curriculum at Dayananda Sagar University. The initiative aimed to align academic offerings with the fast-evolving needs of the cybersecurity industry and global technology standards. The session featured valuable insights from two distinguished professionals—Ms. Sowmya N Swamy, Vice President, Information Security Solutions at Wells Fargo India, and Mr. Nayan Naidu, a strategic global executive with expertise in cybersecurity and IT infrastructure. Both speakers acknowledged the strengths of the current curriculum and recommended enhancements to ensure graduates are equipped with practical and industry-relevant skills. Key suggestions included the integration of hands-on modules in threat detection, incident response, and ethical hacking, along with focused training on cloud security, data privacy regulations, AI-based security tools, and DevSecOps practices. Emphasis was also placed on awareness of compliance frameworks such as ISO 27001 and GDPR. Presented by Dr. Devi Priya V S and moderated by Dr. D. Sumathi and Dr. Dilip Saini, the conclave encouraged active discussion around incorporating certifications, case-based learning, internships, and simulation-driven education. Efficiently coordinated by Prof. Ranjima and Prof. Naveen Kulkarni, the event served as a strong step toward strengthening academia-industry collaboration and shaping a future-ready cybersecurity curriculum.

“Industry Conclave on Curriculum Development” - CSE

Veranda, in collaboration with Six Phrase and Talentely, conducted a comprehensive academic review on 23rd May 2025, organized by the Department of Placement and Training alongside the Department of CSE at Dayananda Sagar University. The session provided an in-depth walkthrough of the 2024–25 and 2025–26 B.Tech curricula, M.Tech programs, and core CSE syllabi, including updates on BVoc courses and the current Board of Studies (BoS) members. The panel emphasized revisiting foundational engineering subjects in the first year, regardless of discipline, and highlighted how IoT hardware concepts enable students to engage in hackathons through real-world problem-solving. Feedback was taken on the CTS course delivery and evaluation, with a suggestion to integrate real-world applications for all programming topics, such as mapping data structures to relevant case studies. A key recommendation was to infuse AI and automation across all disciplines—for example, AI components in Clinical Decision Support Systems (CDSS) and Embedded Systems. Secure Software Development Lifecycle (SSDLC), cloud computing, mind mapping, and practical illustrations for theoretical concepts were also discussed. Positive feedback was received on the LINUX programming syllabus, and the growing student interest in the Django course was shared. Further discussions included the integration of ARM architecture into Embedded Systems labs, enhancing students’ exposure to current semiconductor trends. The transition to awarding B.Tech and M.Tech degrees at DSU was clarified, and the structure of Continuous Internal Evaluation (CIE), including the 60:40 weightage and Open Book assessments, was explained and validated by the panel.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INDUSTRY CONCLAVE ON CURRICULUM DEVELOPMENT
ENGAGING FUTURE TALENT
Mr. Nayan Naidu
Begins May 23
2025


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ENGAGING FUTURE TALENT
Sindhu Srinivas
Begins May 23
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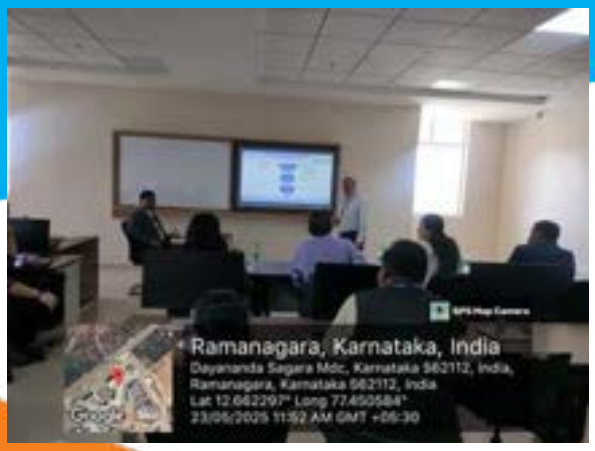
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“Board of Studies (BoS) Meeting– 2025” - CSE(DS)

The Board of Studies (BoS) meeting for the Department of Computer Science and Engineering (Data Science) at Dayananda Sagar University was held on 30th May 2025 in hybrid mode. The meeting took place in Room A411, Block A, at the Main Campus, and was attended by a blend of in-person and online members, including esteemed academicians and industry professionals. The agenda focused on reviewing and refining the curriculum and scheme for the B.Tech Data Science program, specifically for the batches of 2023, 2024, and 2025. Dr. Shaila SG, Chairperson of the department, presented the proposed updates to the curriculum. Feedback was gathered from various stakeholders, including faculty, students, alumni, and parents, to ensure a comprehensive and balanced revision. The panel engaged in detailed discussions about the curriculum structure from the first to the eighth semester. Members from reputed institutions such as IIT Kharagpur, NIT Puducherry, UBDTCE, and industry representatives from IBM contributed key insights and recommendations to strengthen the program. The deliberations emphasized aligning academic content with current industry expectations and future skill demands. The meeting concluded with the collection of constructive suggestions and final remarks. The proposed syllabus revisions were positively received, with the department committed to implementing the recommended enhancements to improve student preparedness and program effectiveness.

“Stress Management: Unplug the Pressure”

“Stress Management: Unplug the Pressure” is a proactive student wellness initiative curated for the Department of CSE (AI & ML) students of Dayananda Sagar University. The event spans multiple sessions led by experienced psychiatrists from CDSIMER and faculty members, focusing on mental health, cognitive well-being, and behavioral discipline. It begins with a self-realization session by Prof. S.V.K.R. Rajeswari, aiming to lay a foundation for understanding personal triggers and stress responses. The subsequent weeks include sessions on friendships and relationships, cognitive misperceptions, time management, and behavioral addictions. By integrating psychological insights and practical tools, this event provides students with strategies to navigate academic pressure, emotional burnout, and lifestyle challenges. It reinforces DSU’s commitment to nurturing not just academic excellence but emotional intelligence and well-being, thus preparing students for personal and professional success. The sessions were led by Prof. S.V.K.R. Rajeswari from AI & ML, DSU, along with psychiatrists Dr. Anupama, Dr. Pooja, Dr. Neeraj, Dr. Gopal, and Dr. Likhith from CDSIMER, who shared valuable insights on managing stress and mental well-being.


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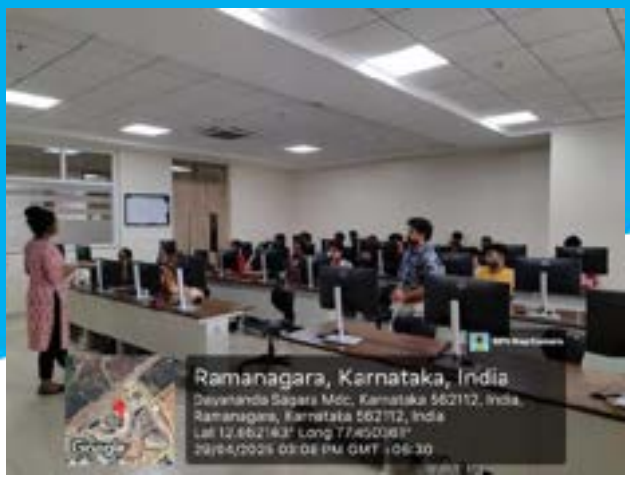
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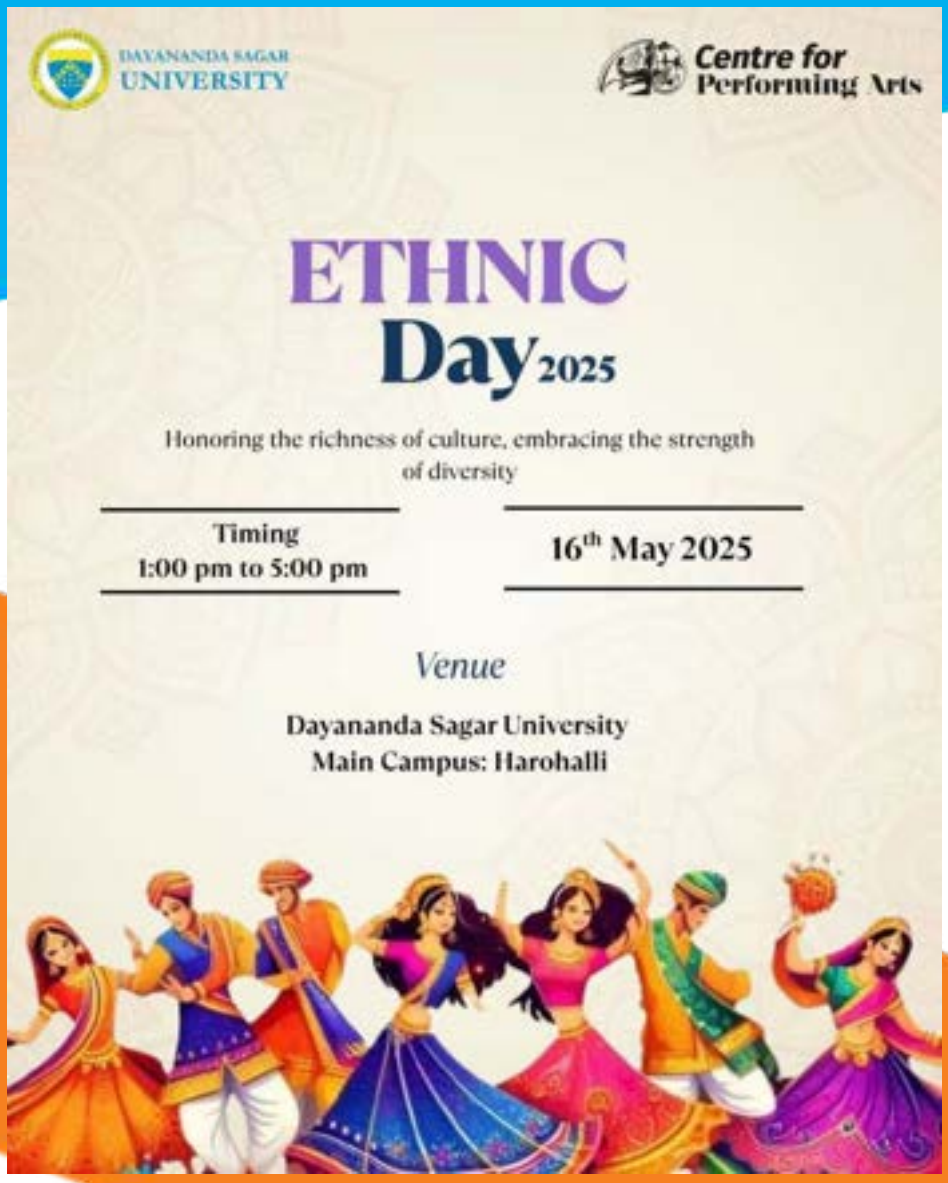
“ETHNIC DAY 2K25”

The Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, celebrated Ethnic Day on 16/05/2025. Ethnic Day is a cultural celebration that highlights the beauty and diversity of traditional customs, attire, and practices. It provides a platform for individuals to express their cultural roots with pride by wearing ethnic outfits and participating in various traditional activities such as music, dance, and food festivals. The event fosters unity in diversity, encouraging respect and appreciation for different cultures within the community. It is a joyful occasion that blends learning with celebration, bringing people together in the spirit of heritage and harmony.



“Departmental Electives awareness for ODD 7th Sem 2025-26 batch”

On 21st May 2025 (Wednesday), designated faculty members from the Department of Computer Science and Engineering addressed the 6th-semester students to provide insights and awareness about the elective courses being offered in the upcoming 7th semester. The session aimed to help students make informed decisions by highlighting the core essence of each subject, its relevance in the current technological landscape, and its potential impact on future career opportunities. Faculty members explained the practical applications of each elective, shared the general prerequisites required, and discussed how these courses align with current industry trends. Students were also informed that the registration for electives would be carried out through the ERP system.

7th Semester B. Tech CSE			
Professional Elective -4			
Sl. No	Course code	Course Name	Faculty assigned to address Students
1	22CS4703	Natural Language Processing	Dr. Natarajan Venkateswaran
2	22CS4704	Introduction Robotics	Dr. Chetan V Sagarnal
3	22CS4705	Augmented Reality and Virtual Reality	Dr. J S Nixon
4	22CS4706	Cloud & IoT Security	Dr. Gokulakrishnan S
5	22CS4707	AWS Web Services	Dr. George Fernandez
6	22CS4708	Social Networks Analytics	Dr. Revathi
7	22CS4710	UG Research Project II/Product Development Foundation II	Dr. Revathi
8		MOOC	
Professional Elective -5			
1	22CS4711	Automated Driving Assistance Systems	Dr. Sridhar S K
2	22CS4712	Generative AI	Prof. Arjun
3	22CS4713	UI/UX Design	Prof. Yashpal Gupta S
4	22CS4714	Industrial IoT	Dr Mouleeswaran S K
5	22CS4715	Blockchain & Distributed Ledger	Dr. Bipin Kumar Rai
6	22CS4716	Business Intelligence	Dr Basavaraj N Hiremath
7	22CS4717	Human Computer Interface	Dr. Gokulakrishnan S
8	22CS4718	High Performance Computing	Dr. Shashikiran v
9	22CS4719	Digital Forensic	Prof. Naitik S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“Departmental Professional Elective -1 awareness for ODD 5th Sem 2025-26 batch”

On 19th May 2025 (Monday), the Department of Computer Science and Engineering conducted a Professional Elective-1 awareness session for the 5th-semester students as part of the academic year 2025–26. The session aimed to help students understand the available elective options and guide them in selecting courses that align with their academic interests and career aspirations. Designated faculty members explained the essence and importance of each elective subject, highlighting how they are connected to emerging technologies and current industry demands. They elaborated on the core topics, practical applications, and future scope of each course while also mentioning the necessary prerequisites. The session also informed students that the elective registration process would be conducted through the ERP system, encouraging timely and informed course selection.

List of Electives and Assigned Faculty:

Sl. No	Course Name	Faculty Assigned
1	Digital Image Processing	Prof. Benaka Santhosh
2	Computer Graphics	Prof. Yashpal Gupta S
3	Introduction to Cybersecurity	Prof. Naitik S
4	Introduction to Data Mining	Dr. Arunkumar Gopu
5	Mobile Computing and App Development	Prof. Roshan
6	Pattern Recognition	Dr. Renuka Devi
7	Robotic Process Automation	Prof. Yashpal Gupta S


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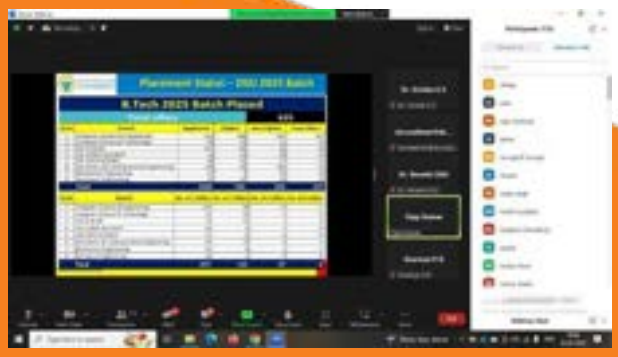
“Parents Teacher Meeting” - AI&R

The Department of Artificial Intelligence and Robotics Engineering at Dayananda Sagar University organized a Parents Teacher Meeting (PTM) on Saturday, 24th May 2025, starting at 11:00 AM in Room A506, School of Engineering. The meeting aimed to foster collaboration among parents, faculty, and students to discuss academic progress, behavior, and future goals. The event began with a warm welcome to parents and guardians, followed by a presentation on the academic curriculum, co-curricular activities, and departmental achievements. Parents then engaged in one-on-one discussions with subject faculty to review their children’s academic performance, attendance, discipline, and career planning, including internship opportunities. Parents appreciated the department’s transparent communication and proactive approach toward student success and well-being. The meeting strengthened the student-parent-teacher relationship, provided insight into students’ overall development, and helped identify areas needing additional support. Valuable feedback from parents was also received to improve academic delivery and student engagement. The department expresses sincere thanks to all parents, faculty, and students for their active participation and acknowledges the Chairperson and organizing team for the successful conduct of the event.

“Parent Teacher Meeting for 4th & 6th semester” - CSE

Parents–Teachers Meeting was conducted by the Department of Computer Science and Engineering for the parents of 4th and 6th-semester students on May 30th, 2025, through online mode. The meeting began with a welcome address by the Chairman, followed by a highlighting of the department’s curriculum and department achievements, including academic results, workshops, and industry collaborations. The placement coordinator, along with HR, discussed placement activities happening on the college campus, along with the current placement status. Class advisors send a separate Google Meet to their respective classes and discuss students’ academic performance, attendance, and the importance of skill development. The detailed insights into the academic performances of students highlight both strengths and areas needing improvement. Parents were provided with individualized reports and feedback on their ward's academic standing and were encouraged to actively participate in their ward's educational journey. Parents were informed about the various clubs, sports teams, and cultural activities available at the college, emphasizing the role of these activities in shaping a well-rounded individual. Dr. Girisha G S, Professor and Chairman, shared observations regarding students' behavior, social interactions, and overall attitude in and outside the classroom. He gave a short introduction to department activities, the College website, important web pages, the Curriculum, and the important links on the website. Also, explained the curriculum design methodology and sought input from parents about the curriculum.



SCHOOL OF
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INDUSTRIAL VISIT

Visit to “Moog India Technology Center (MITC)”

The Department of Artificial Intelligence and Robotics at Dayananda Sagar University organized an industrial visit to Moog India Technology Centre (MITC) in Electronic City, Bangalore, on 16th May 2025. Attended by 4th-semester students, the visit provided valuable exposure to advanced motion control technologies used in industries such as aerospace, defence, medical equipment, and industrial machinery. Students were taken on a tour of the Mechanical, Electrical, and Testing labs, where they observed the integration of mechanical, electrical, and software systems in developing precision motion control products. Technical sessions conducted by Moog engineers focused on the design and functioning of servo valves, actuators, Robotic Process Automation (RPA), and the role of AI in control systems. The visit concluded with an interactive Q&A session, where students discussed industry trends, career opportunities, and Moog’s contributions to the "Make in India" initiative through local R&D and manufacturing. Overall, the visit bridged theoretical knowledge with real-world applications, enhancing the students' understanding of modern engineering practices.

INDUSTRIAL VISIT TO "URSC, BENGALURU"

The ELECTROBLITZ Club, under the Department of Electronics and Communication Engineering, organized an industrial visit to the U R Rao Satellite Centre (URSC), ISRO, Bengaluru, on 15th May 2025. The visit was conducted under the guidance of Dr. Arun Balodi, Chairman of the Department of ECE, and Dr. Divyashree H.B., Convener of the ELECTROBLITZ Club. The event was led by club president Ms. Aarthi Nayak Ullal, with 40 ECE students participating. The students had the opportunity to interact with ISRO scientists and learn about India's remarkable achievements in space exploration. The visit covered an overview of ISRO's satellite systems, launch vehicles, and key missions, including Chandrayaan-3. A dedicated session highlighted cryogenic launch technologies, satellite series such as INSAT, IRS, and GSAT, and insights into ISRO's upcoming Gaganyaan mission. A documentary on Chandrayaan-3's historic lunar landing was showcased, followed by an interactive Q&A session. Students were introduced to ISRO's major launch facilities, including the Satish Dhawan Space Centre and its three launch pads, as well as the technologies behind India's heaviest launch vehicle, the GSLV Mk III. The visit successfully bridged academic learning with real-world space applications and inspired students toward careers in space research and engineering.

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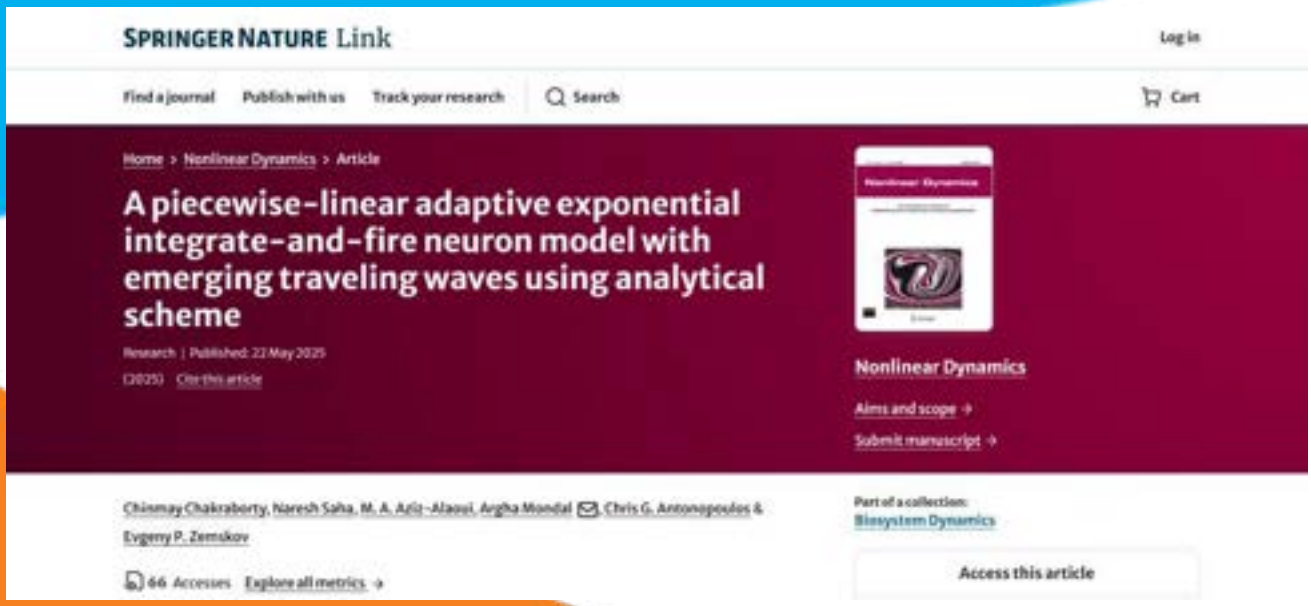
FACULTY ACHIEVEMENTS

Dr. Naresh Saha
Assistant Professor
Department of Mathematics

- Dr. Naresh Saha had published the research article entitled “A piecewise-linear adaptive exponential integrate-and-fire neuron model with emerging traveling waves using analytical scheme" in the journal ‘NonLinear Dynamics’ by Springer Nature, a Q1-indexed journal possessing ISSN: 1573-269x



Dr. M. Shahina Parveen
Professor & Chairperson
Department of CST

- Dr. M. Shahina Parveen, Professor & Chairperson, visited Jain University as a resource person to deliver a topic “Data Science for IOT – Innovate with Intelligence” on May 05th, 2025.

- Dr. M. Shahina Parveen, Professor & Chairperson, participated in a brainstorming and collaboration session on quantum technologies at the Quantum Technologies Innovation Labs, in association with Prof. P.C. Deshmukh and Qupiai Pvt. Ltd.

- Dr. M. Shahina Parveen, Professor & Chairperson, participated in a brainstorming and collaboration session on quantum technologies at the Quantum PI AI Solutions Company.

- Dr. M. Shahina Parveen, Professor and Chairperson, and Ms. Mudiyam Sivani, Research Scholar, published a research article titled 'Analysis on Skin Disease Segmentation and Classification using Machine Learning and Deep Learning in Dermoscopic Images' in the 2025 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI), IEEE Xplore.

Conferences > 2025 International Conference...

Analysis on Skin Disease Segmentation and Classification using Machine Learning and Deep Learning in Dermoscopic Images

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Mudiyam Sivani ; M Shahina Parveen All Authors

Abstract

Document Sections

1.1. Scope of the Review

1.2. Major Contribution

I. Article Selection Criteria

II. ML and DL Schemes

Abstract:

Skin diseases (SDs), particularly skin cancer, are leading causes of morbidity and mortality worldwide, with early detection being crucial for improving patient outcomes. Dermoscopy, a non-invasive imaging technique, is commonly used for evaluating skin lesions, but its analysis requires expertise and is time-consuming. Machine learning (ML) and deep learning (DL) methods have shown promise in automating the Segmentation process and Classification process of SDs (SCSD) using dermoscopic images. This review examines traditional ML algorithms and advanced DL architectures like Convolutional Neural Network model (CNNs), U-Net, and transfer learning (TL) approaches. Key challenges include dataset imbalances, the need for large labeled datasets, and the generalization of models across diverse skin types and lesion variations. The review also

Dr. Sudha D
Associate Professor
Department of CST

- Dr. Sudha has participated in a 40-hour online Faculty Development Programme (FDP) on “QT–02 Foundations of Quantum Technologies” organised by the Dayananda Sagar University, held from April 11 to May 03, 2025.

Electronics & ICT Academies

MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal

Faculty Development Programme on

QT-02 Foundations of Quantum Technologies

April 11 - May 03, 2025

Certificate of Completion

This is to certify that Dr. Danthuluri Sudha of Dayananda Sagar University, Bengaluru has successfully completed the 40 hours (3-Credits equivalent) Faculty Development Programme jointly organized by various Academies. During the period, we found her / him to be hardworking, sincere and committed. Her / His performance was Excellent. This programme is funded by MeitY and endorsed by DST - NQM / AICTE / UGC .

M. P. Singh, Jt-Principal Coordinator; Sanjeev Mandas, Jt-Principal Coordinator; B. V. Phani, Jt-Principal Coordinator; Dip Prakash Samajdar, Jt-Principal Coordinator; Gaurav Trivedi, Jt-Principal Coordinator

P. Radha Krishna, Jt-Principal Coordinator; Vithal Madyalkar, Program Director IBM-ICE; Mahipal P. Jadeja, Jt-Principal Coordinator; Pilli Emmanuel Shubhakar, Principal Coordinator

Prof. Ramandeep Kaur
Assistant Professor
Department of CST

- Prof. Ramandeep Kaur has participated in a 40-hour online Faculty Development Programme (FDP) on “QT–02 Foundations of Quantum Technologies” organised by the Dayananda Sagar University, held from April 11 to May 03, 2025.

Electronics & ICT Academies
MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal

Faculty Development Programme on
QT-02 Foundations of Quantum Technologies
April 11 - May 03, 2025

Certificate of Completion

This is to certify that Mrs. Ramandeep Kaur of Dayananda Sagar University Bengalore has successfully completed the 40 hours (3-Credits equivalent) Faculty Development Programme jointly organized by various Academies. During the period, we found her / him to be hardworking, sincere and committed. Her / His performance was Excellent. This programme is funded by MeitY and endorsed by DST - NQM / AICTE / UGC .

M. P. Singh, Jt-Principal Coordinator
Sanjeev Manhas, Jt-Principal Coordinator
B. V. Phani, Jt-Principal Coordinator
Dip Prakash Samajdar, Jt-Principal Coordinator
Gaurav Trivedi, Jt-Principal Coordinator
P. Radha Krishna, Jt-Principal Coordinator
Vithal Madyalkar, Program Director IBM-ICE
Mahipal P. Jadeja, Jt-Principal Coordinator
Pilli Emmanuel Shubhakar, Principal Coordinator

Dr. Nivetha NRP
Assistant Professor
Department of CST

- Dr. Nivetha NRP, Assistant Professor, has participated in a 40-hour online Faculty Development Programme (FDP) on “QT–02 Foundations of Quantum Technologies” organised by the Dayananda Sagar University, held from April 11 to May 03, 2025.

Electronics & ICT Academies

MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal

Faculty Development Programme on

QT-02 Foundations of Quantum Technologies

April 11 - May 03, 2025

Certificate of Completion

This is to certify that Dr. Nivetha Nrp of Dayananda Sagar University, Bengaluru has successfully completed the 40 hours (3-Credits equivalent) Faculty Development Programme jointly organized by various Academies. During the period, we found her / him to be hardworking, sincere and committed. Her / His performance was Excellent. This programme is funded by MeitY and endorsed by DST - NQM / AICTE / UGC .

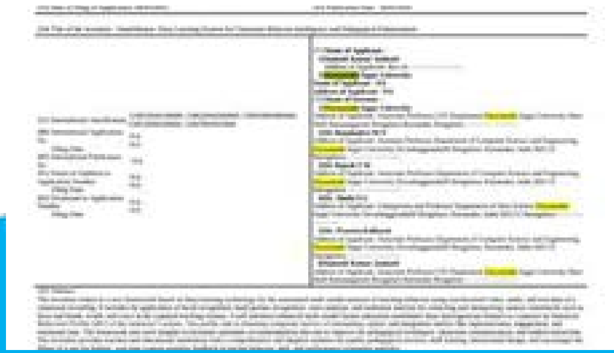
M. P. Singh, Jt-Principal Coordinator; Sanjeev Mandas, Jt-Principal Coordinator; B. V. Phani, Jt-Principal Coordinator; Dip Prakash Samajdar, Jt-Principal Coordinator; Gaurav Trivedi, Jt-Principal Coordinator

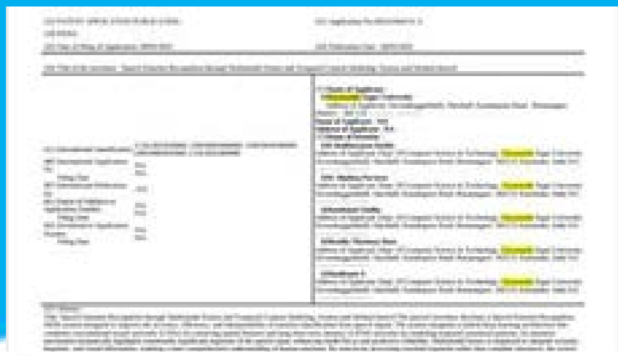
P. Radha Krishna, Jt-Principal Coordinator; Vishal Madyalkar, Program Director IBM-ICE; Mahipal P. Jadeja, Jt-Principal Coordinator; Pilli Emmanuel Shubhakar, Principal Coordinator

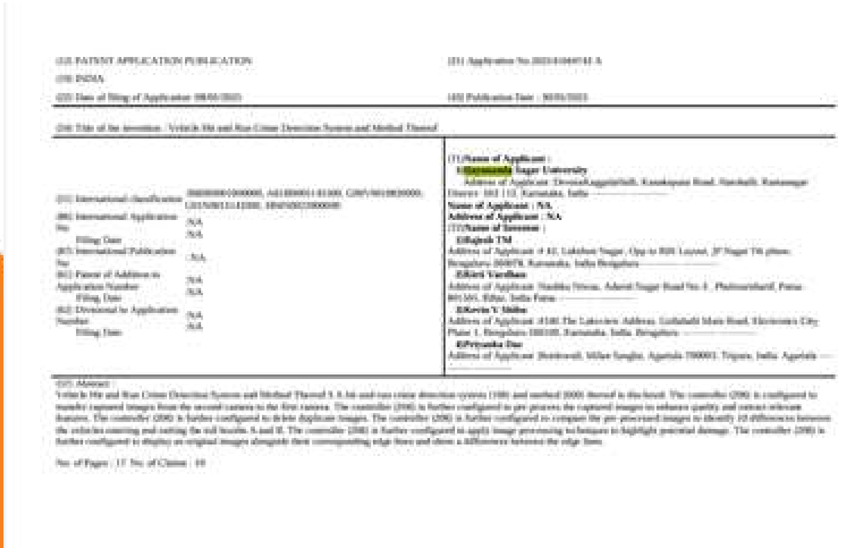
Prof. Vinayaka V M
Assistant Professor
Department of CST

- Prof. Vinayaka V. M. attended the Vijayavani Education Expo 2025, representing the School of Engineering, Dayananda Sagar University. The event was held on the 17th and 18th of May 2025 at Shankarnag Playground, Banashankari, Bengaluru. The expo was inaugurated by VRL Chairman, Vijaya Sankeshwara, and VTU Vice Chancellor, Dr. S. Vidyashankar. More than 160 prospective students visited the Dayananda Sagar University stall on the first day, and over 100 visitors attended on the second day.

- The Department of Computer Science and Technology has successfully published 11 patents, showcasing the innovative contributions of both faculty members and students.






(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(54) Title of the invention : Vehicle Hit and Run Crime Detection System and Method Thereof
(71)Name of Applicant :
1)Dayananda Sagar University
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Rajesh TM
2)Ravi Vardhan
3)Kevin Y Shibu
4)Priyanka Das
(57) Abstract :
The controller (200) is configured to transfer captured images from the second camera to the first camera. The controller (200) is further configured to pre-process the captured images to enhance quality and extract relevant features. The controller (200) is further configured to delete duplicate images. The controller (200) is further configured to compare the pre-processed images to identify 10 differences between the vehicles entering and exiting the toll booths A and B. The controller (200) is further configured to apply image processing techniques to highlight potential damage. The controller (200) is further configured to display an original images alongside their corresponding edge lines and show a difference between the edge lines.
No. of Pages : 17 No. of Claims : 10

Dr. B V N Ramakumar
Professor
Department of AE

- Dr. B.V.N. Ramakumar, Professor, Department of AE, has published a research paper titled “Analysing Aeroelastic Wing Flutter: Trends in Eigenvalues and System Speeds for Improved Aircraft Design and Safety” in the Lecture Notes in Mechanical Engineering series, as part of the volume Advances in Multidisciplinary Design, Analysis and Optimization. This publication is included in the proceedings of the 6th National Conference on Advances in Multidisciplinary Design, Analysis and Optimization (NCAMDAO).

Analyzing Aeroelastic Wing Flutter: Trends in Eigenvalues and System Speeds for Improved Aircraft Design and Safety

N. Akshayraj and B. V. N. Ramakumar

Abstract Aeroelastic wing flutter plays a crucial role in the field of aerospace engineering, as it addresses a significant concern in aircraft design and safety. Flutter refers to the self-excited oscillations that can occur in an aircraft's wings when subjected to certain aerodynamic forces and structural dynamics. These oscillations can lead to potentially catastrophic consequences if not properly understood and addressed. Understanding aeroelastic wing flutter is essential to ensure the structural integrity, stability, and performance of aircraft. It helps to identify critical conditions, design robust wings, and develop strategies to mitigate or suppress flutter, ultimately contributing to safer and more efficient air transportation. This technical paper presents an investigation on a system of equations, incorporating structural damping, and explores the solution to the corresponding eigenvalue problem across a range of speeds. The primary objective in this research is to analyze and visualize the trends of Vss (eigenvalue) and Vg (system speed), by writing a code in MATLAB. The code facilitates numerical solution of the system equations, allowing for the study of damping effects on the system's behavior. By systematically varying the speed parameter, the resulting eigenvalues and system speeds are obtained and plotted to provide insights into the system's dynamic characteristics.

Keywords Aeroelasticity · Eigenvalue · Flutter · Oscillation · Stability

1 Introduction

Aeroelastic phenomena play a crucial role in the design and performance of aerospace structures, and among these, flutter stands out as a significant and challenging phenomenon to address [1, 2]. Flutter represents unstable self-excited vibration,

N. Akshayraj · B. V. N. Ramakumar (✉)
Department of Aerospace Engineering, Dayananda Sagar University, Bengaluru, Karnataka, India
e-mail: [redacted]

D. Sharma et al. (eds.), *Advances in Multidisciplinary Design, Analysis and Optimization*, Lecture Notes in Mechanical Engineering.

Dr. Suryanarayana GK
Professor
Department of AE

- Dr. G. K. Suryanarayana, Professor, Department of Aerospace Engineering, SOE-DSU, has been appointed as a member of the Editorial Board for the journal Aerospace and Aeronautical Engineering, a peer-reviewed open-access publication by Hill Publishing Group Inc., USA. The appointment, effective from 16th May 2025, is initially for a period of one year and may be extended based on mutual agreement. This recognition reflects his academic expertise and commitment to promoting high-quality research. It also signifies Dayananda Sagar University's growing involvement in global academic and research communities.

HILL PUBLISHING

Aerospace and Aeronautical Engineering

– A Scholarly Peer-Reviewed Open Access Journal –

Prof. Suryanarayana Krishnamurthy

Dayananda Sagar University

via e-mail

Appointment as Member to Aerospace and Aeronautical Engineering

Prof. Suryanarayana Krishnamurthy,

It is indeed a pleasure to announce your appointment as an Editor of *Aerospace and Aeronautical Engineering*. By accepting the appointment your name will appear on the website https://www.hillpublisher.com/journals/aae/ and under "Editorial Board" on the front matter of the journal. The appointment is initially for one year commencing on 16th May 2025. Your term may be renewed consecutively on an annual basis if you and the President of Hill Publishing Group Inc. agree upon this.

As an Editorial Board member, you will be expected to:

- take an active part in the peer review process as Editor (https://www.hillpublisher.com/journals/aae/) with quick response;
- review up to five papers during the year if it is necessary for the journal;
- support quality control of the journal;
- help in recommending referees in Aerospace and Aeronautical Engineering;
- encourage submissions from adequate potential contributors for publication during the year in *Aerospace and Aeronautical Engineering*;
- call for papers from your organizations;
- promote *Aerospace and Aeronautical Engineering* at relevant conferences and other public events.

Your benefits as Editorial Board Member of *Aerospace and Aeronautical Engineering*:

- for your own submitted papers to *Aerospace and Aeronautical Engineering* (these papers for which you are the corresponding author), there is **an Article Processing Charge (APC)** for **your first paper**;
- your recommended papers will get a **20% discount** on APC.

If you accept the appointment subject to the above terms, you're welcome to sign one copy of this letter and return the scanned version via email to us before **31st May 2025**. Thank you for your support!

Yours sincerely,
Aerospace and Aeronautical Engineering

Yours sincerely,
Suryanarayana GK

I hereby agree to the terms of my appointment set forth above.

Date: 2025-05-16

- Dr. Suryanarayana G.K., Professor in the Department of Aerospace Engineering, has published a research paper titled “Passive Control of Transonic Shock-Wave–Boundary-Layer Interactions over a Blunt Nose Body Using Aerodiscs” in the prestigious Journal of Spacecraft and Rockets.

JOURNAL OF SPACECRAFT AND ROCKETS

Passive Control of Transonic Shock-Wave–Boundary-Layer Interactions over a Blunt Nose Body Using Aerodiscs

Dheerendra B. Singh* and Girosh Yanamashetti†
Council of Scientific and Industrial Research–National Aerospace Laboratories, 560 017 Bangalore, India
Gargeshwari K. Suryanarayana‡
Dayananda Sagar University, 562 112 Bangalore, India
and
Gopalan Jagadeesh§
Indian Institute of Science, 560 012 Bangalore, India

https://doi.org/10.2514/1.A36199

The payload fairings of launch vehicles with blunt nose cones are prone to transonic buffet excitation due to high levels of pressure fluctuations caused by shock-wave–boundary-layer interactions (SWBLI) at small angles of attack. The problem becomes crucial when the semi-nose-cone angle exceeds 10°. The present work focuses on mitigating SWBLI by energizing the boundary layer growing over the payload region so that it does not respond to shock oscillations, even when the semi-nose-cone angle is 20° or 25°. The technique involves an aerodisc comparable to an aerospike mounted upstream of the nose cone. The eddies shed by the aerodisc impinge on the nose cone, where the pressure gradient for the boundary layer is highly favorable. Due to the receptivity of the boundary layer, the turbulent kinetic energy associated with the boundary layer is enhanced. Consequently, as the boundary layer grows over the payload region, the shock oscillations are suppressed. Thus, the pressure fluctuations over the 20° nose can be controlled to reach the levels reached with a 10° nose. It is thereby demonstrated that the aerodisc mounted on bulkier payloads controls SWBLI and modifies the buffet environment over the payload region. Limited parametric studies to optimize the aerodisc geometry are presented.

Nomenclature

AOA	=	angle of attack
C_{xf}	=	axial force coefficient
C_n	=	normal force coefficient
C_{n_α}	=	slope of coefficient of normal force with alpha
C_{mp}	=	pitching moment coefficient
C_{m_α}	=	slope of coefficient of pitching moment with alpha
$C_{p,\mathrm{rms}}$	=	coefficient of pressure fluctuations; P'rms/q
D	=	payload region/base shield diameter
d	=	core cylinder diameter
d_1	=	aerodisc diameter
Global average $C_{p,\mathrm{rms}}$	=	$\sum_{i=1}^{n} C_{p,\mathrm{rms}}/N$, where i indicates the sensor number on the payload region
L	=	aerodisc stem/rod length
M	=	Mach number
OASPL	=	overall sound pressure level, $20 \times \log(P'_{\mathrm{rms}}/(20 \times 10^{-6}))$
q	=	dynamic pressure, psia
x	=	longitudinal distance on the model
X_{cp}	=	center of pressure in x direction normal plane
α	=	angle of attack, deg
δ_c	=	semi-nose-cone angle, deg
P'_{rms}	=	rms value of pressure fluctuations (up to 40 kHz), $\sqrt{\sum P'^2/N}$, where N = number of samples

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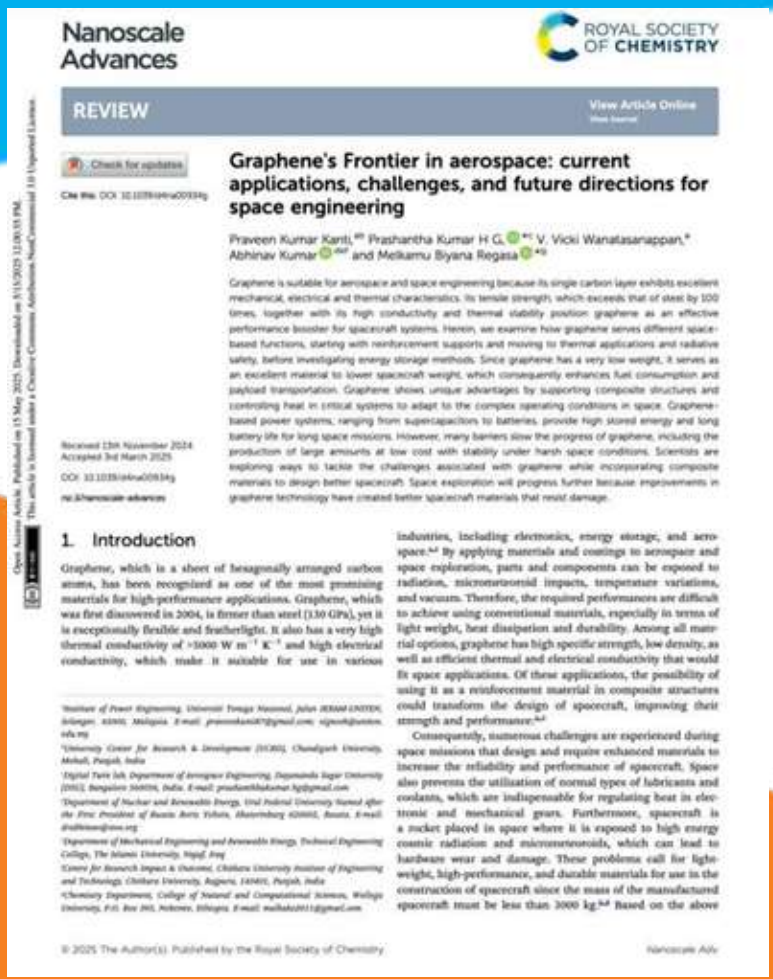
*Senior Principal Scientist, National Trisonic Aerodynamic Facilities Division, also Research Scholar, Department of Aerospace Engineering, Indian Institute of Science, Bangalore; dbsingh@nal.res.in (Corresponding Author)
†Senior Principal Scientist, National Trisonic Aerodynamic Facilities Division.
‡Professor, Department of Aerospace Engineering.

I. Introduction

DETAILED experimental exploration of unsteady transonic flows over blunt/hammerhead nose shapes was first reported by Cox [1] based on steady and unsteady pressure distributions over the payload fairings used in Centaur and Able V, where it was found that the hammerhead shape (Able V) caused high levels of pressure fluctuations. Cox and Winter [2] studied steady and unsteady pressure distributions around three nose shapes typical of launch vehicles, highlighting that the hammerhead shape caused not only high levels of unsteadiness but also large extents of flow separation over the payload region. A focused study to understand the effects of nose cone angle alone was reported by Chevalier and Robertson [3], wherein the nose cone angles alone varied in the 10°–25° range. This basic study identified four types of flow around the nose cone–cylinder junction, depending on the semi-nose-cone angle (δ_c) and angle of attack (α), when the Mach number was less than 1.0. These are i) separated flow, ii) alternating flow separation and attachment, iii) shock wave oscillations, and iv) attached flow. Among these types of flows, the highest magnitudes of fluctuating pressures were found to be associated with alternating flow where the flow over the payload fairing was intermittently attached and detached (the corresponding pressure–time histories appeared to be like a square wave. It is quite likely that this observation could be due to tests at constant Mach number in a wind tunnel. In an actual flight, since the vehicle continuously accelerates and the flowfield is not necessarily quasi-steady, the validity of wind tunnel data at fixed M is indeed questionable. At the same time, it cannot be guaranteed that the phenomena observed in the wind tunnel do not occur in flight. In reality, there are several factors that can contribute to differences between flight data and wind tunnel data, as observed in the Ares launch vehicle, as reported by Schulz et al. [4,5]. Nevertheless, in the earlier studies [3], experiments had limitations

Dr. Prashantha Kumar
Assistant Professor
Department of AE

- Dr. Prashantha Kumar H. G., Assistant Professor, Department of Aerospace Engineering, School of Engineering, Dayananda Sagar University, has co-authored a notable research article titled “Graphene's Frontier in Aerospace: Current Applications, Challenges, and Future Directions for Space Engineering.” This paper has been published in Nanoscale Advances, a Q1-ranked journal (Impact Factor: 5.6) by the Royal Society of Chemistry.



Nanoscale Advances

ROYAL SOCIETY OF CHEMISTRY

REVIEW

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Cite this: DOI: 10.1039/d4na00934g

Graphene's Frontier in aerospace: current applications, challenges, and future directions for space engineering

Praveen Kumar Kanti,[a] Prashantha Kumar H G,[b]*c] V. Vicki Wanatasanappan,* Abhinav Kumar[d]*ef] and Melkamu Biyana Regasa[g]*g]

Graphene is suitable for aerospace and space engineering because its single carbon layer exhibits excellent mechanical, electrical and thermal characteristics. Its tensile strength, which exceeds that of steel by 100 times, together with its high conductivity and thermal stability position graphene as an effective performance booster for spacecraft systems. Herein, we examine how graphene serves different space-based functions, starting with reinforcement supports and moving to thermal applications and radiative safety, before investigating energy storage methods. Since graphene has a very low weight, it serves as an excellent material to lower spacecraft weight, which consequently enhances fuel consumption and payload transportation. Graphene shows unique advantages by supporting composite structures and controlling heat in critical systems to adapt to the complex operating conditions in space. Graphene-based power systems, ranging from supercapacitors to batteries, provide high stored energy and long battery life for long space missions. However, many barriers slow the progress of graphene, including the production of large amounts at low cost with stability under harsh space conditions. Scientists are exploring ways to tackle the challenges associated with graphene while incorporating composite materials to design better spacecraft. Space exploration will progress further because improvements in graphene technology have created better spacecraft materials that resist damage.

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Accepted 3rd March 2025

DOI: 10.1039/d4na00934g

rsc.li/nanoscale-advances

1. Introduction

Graphene, which is a sheet of hexagonally arranged carbon atoms, has been recognized as one of the most promising materials for high-performance applications. Graphene, which was first discovered in 2004, is firmer than steel (130 GPa), yet it is exceptionally flexible and featherlight. It also has a very high thermal conductivity of >3000 W m^{-1} K^{-1} and high electrical conductivity, which make it suitable for use in various industries, including electronics, energy storage, and aerospace.[1,2] By applying materials and coatings to aerospace and space exploration, parts and components can be exposed to radiation, micrometeroid impacts, temperature variations, and vacuum. Therefore, the required performances are difficult to achieve using conventional materials, especially in terms of light weight, heat dissipation and durability. Among all material options, graphene has high specific strength, low density, as well as efficient thermal and electrical conductivity that would fit space applications. Of these applications, the possibility of using it as a reinforcement material in composite structures could transform the design of spacecraft, improving their strength and performance.[3,4]

Consequently, numerous challenges are experienced during space missions that design and require enhanced materials to increase the reliability and performance of spacecraft. Space also prevents the utilization of normal types of lubricants and coolants, which are indispensable for regulating heat in electronic and mechanical gears. Furthermore, spacecraft is a rocket placed in space where it is exposed to high energy cosmic radiation and micrometeroids, which can lead to hardware wear and damage. These problems call for lightweight, high-performance, and durable materials for use in the construction of spacecraft since the mass of the manufactured spacecraft must be less than 3000 kg.[5,6] Based on the above

Prof. Sripad Kulkarni
Assistant Professor
Department of AE

- Prof. Sripad Kulkarni S has published a research paper titled “Unmanned Aerial Vehicle (UAV) with Heavy Payload Capacity and Enhanced Stability” in the Lecture Notes in Mechanical Engineering series, within the volume Advances in Multidisciplinary Design, Analysis and Optimization. This publication is part of the proceedings of the 6th National Conference on Advances in Multidisciplinary Design, Analysis and Optimization (NCAMDAO).

Unmanned Aerial Vehicle (UAV) with Heavy Payload Capacity and Enhanced Stability

K. Raghav, T. Karthik, S Sripad Kulkarni, and H. G. Prashantha Kumar

Abstract The paper introduces a versatile drone platform for experimentation and testing. With customizable payloads, advanced control systems, and a controlled environment, it facilitates technology and algorithm assessment. Emphasizing flexibility, scalability, and integration ease, it's a reliable platform for UAV prototyping and concept evaluation. The project aims to advance drone technology by providing a comprehensive test bed, aiding the development and validation of new UAV systems and applications, thus contributing to unmanned aerial vehicle evolution.

Keywords UAVs · Test bed drone · Payload · Mission planner

1 Introduction

1.1 About UAV

A quadcopter, or quadrotor, is a versatile UAV with four rotors, widely used in aerial photography, surveillance, and more. Its cross-pattern rotor arrangement allows precise control in three dimensions, including hover, ascend, descend, and lateral movement. Equipped with sensors like accelerometers and gyroscopes, it maintains flight stability. Often carrying a camera or payload, it's utilized for tasks like

K. Raghav · T. Karthik (✉) · S. Sripad Kulkarni · H. G. Prashantha Kumar
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K. Raghav
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S. Sripad Kulkarni
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H. G. Prashantha Kumar
e-mail: prashantha-ae@dsu.edu.in

D. Sharma et al. (eds.), *Advances in Multidisciplinary Design, Analysis and Optimization*, Lecture Notes in Mechanical Engineering,
https://doi.org/10.1007/978-981-96-1158-4_10

Dr. D.Sumathi
Professor
Department of CSE(CY)

- Dr. D. Sumathi was awarded a Certificate of Appreciation by the Electronics & ICT Academy, IIT Guwahati, supported by the Ministry of Electronics and Information Technology (MeitY), Government of India, for their significant contribution to the successful organization of a one-week Faculty Development Programme (FDP) on “Generative AI and Future Computing.” The FDP was held from 12th to 17th May 2025 in collaboration with the School of Advanced Studies, S-VYASA Deemed-to-be-University, Bengaluru.

Electronics & ICT Academy

Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India

Indian Institute of Technology Guwahati

Certificate of Appreciation

Awarded to

Dr. Sumathi D

of Dept. of CSE(Cyber Security),School of Engineering, Dayananda Sagar University, Harohalli, in recognition of your significant contribution towards the success of the one-week Faculty Development Programme on "Generative AI and Future Computing" organized by E&ICT Academy IIT Guwahati held from 12th to 17th May, 2025 in association with School of Advanced Studies, S-VYASA Deemed-to-be-University, Bengaluru.

Prof. Gaurav Trivedi

Dr. Mubeen Ahmed Khan
Assistant Professor
Department of CSE(CY)

- Dr. Mubeen Ahmed Khan has successfully completed a one-week online Faculty Development Program (FDP) organized by Annant Gyan Knowledge and Skills Private Limited. The FDP, titled “Smart Environments: Technologies, Applications, and Future Trends (SETF-2025)”, was held from 21st April to 26th April 2025.

Prof.Deepthika Karuppusamy
Assistant Professor
Department of CSE(CY)

- Prof. K. Deepthika has successfully completed the NPTEL certification for the 12-week course titled Blockchain and its Applications during the January–April 2025 session with a consolidated score of 58%.

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

DEEPTHIKA KARUPPUSAMY

for successfully completing the course

Blockchain and its Applications

with a consolidated score of 58 %

Online Assignments	23.75/25	Proctored Exam	34.5/75

Total number of candidates certified in this course: 4124

Jan-Apr 2025

(12 week course)

Prof. Haimanti Banerji

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25CS08S54100148 To verify the certificate No. of credits recommended: 3 or 4

- Prof. Deepthika Karuppusamy has been awarded the Elite Certification for successfully completing the NPTEL course and Faculty development program on "Introduction to Industry 4.0 and Industrial Internet of Things" during the Jan–Apr 2025 session with a score of 76%.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

DEEPTHIKA KARUPPUSAMY

for successfully completing the course

Introduction To Industry 4.0 And Industrial Internet Of Things

with a consolidated score of 76 %

Online Assignments	25/25	Proctored Exam	51/75

Total number of candidates certified in this course: 13763

Jan-Apr 2025

(12 week course)

Prof. Hainanti Banerji

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25CS43S645100417 To verify the certificate No. of credits recommended: 3 or 4


NPTEL-AICTE

Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DEEPTHIKA KARUPPUSAMY

for successfully completing the course

Introduction To Industry 4.0 And Industrial Internet Of Things

with a consolidated score of 76 %

Prof. Andrew Thangaraj

NPTEL Coordinator

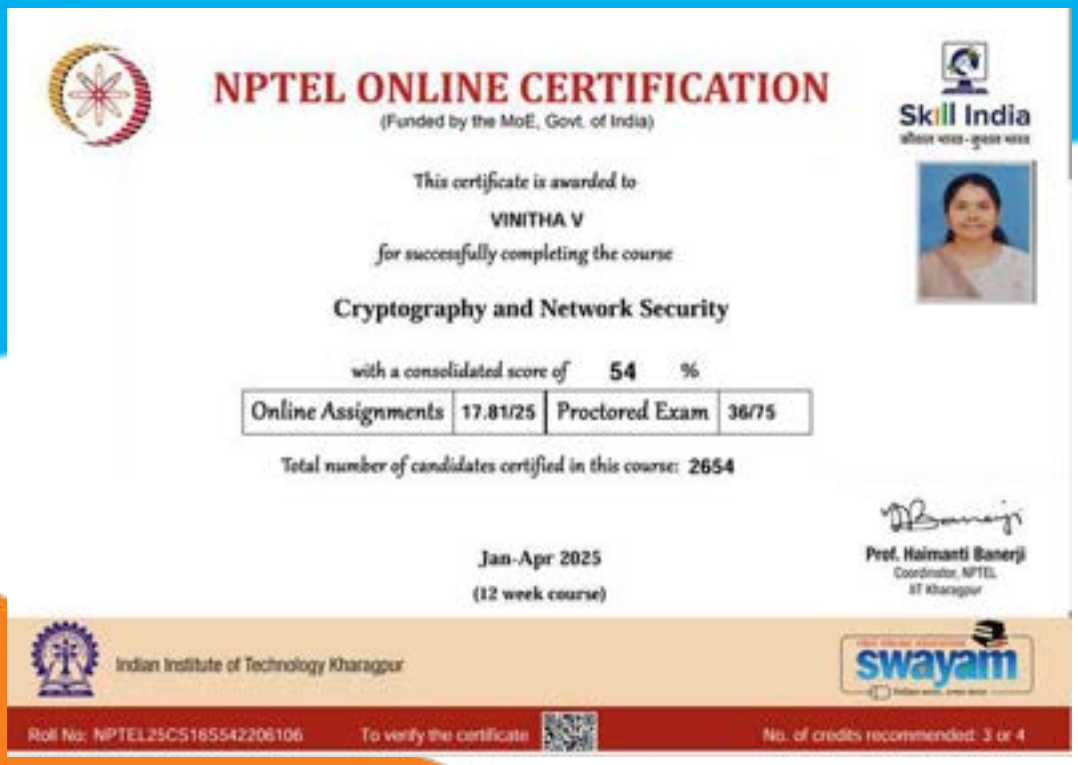
IIT Madras

(Jan-Apr 2025)

Roll No: NPTEL25CS43S645100417 Duration of NPTEL course : 12 Weeks

Prof.V. Vinitha
Assistant Professor
Department of CSE(CY)

- Prof. Vinitha V has successfully completed the NPTEL certification for the 12-week course titled Cryptography and Network Security during the January–April 2025 session with a consolidated score of 54%.



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

VINITHA V

for successfully completing the course

Cryptography and Network Security

with a consolidated score of 54 %

Online Assignments	17.81/25	Proctored Exam	36/75

Total number of candidates certified in this course: 2654

Jan-Apr 2025

(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL

IIT Kharagpur

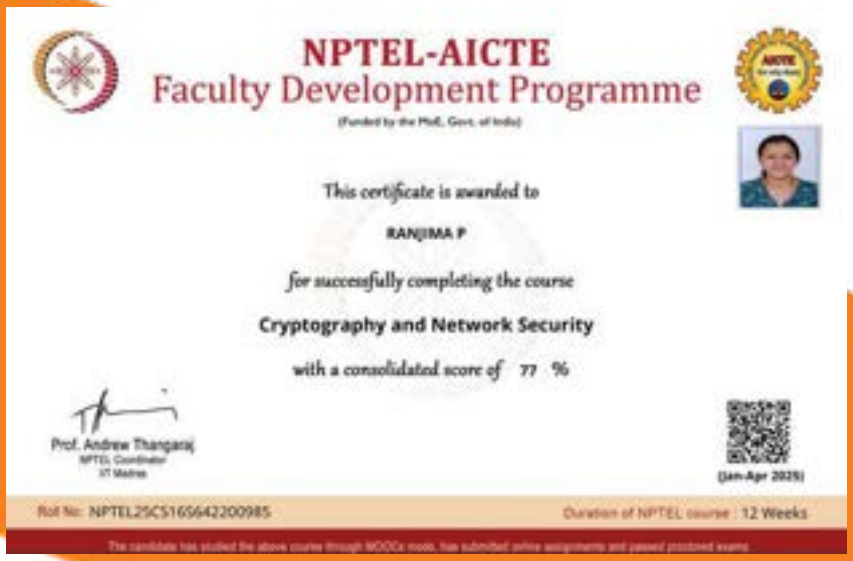
Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25CS165542206106 To verify the certificate No. of credits recommended: 3 or 4

Prof. Ranjima P
Assistant Professor
Department of CSE(CY)

- Prof. Ranjima P has successfully completed the Faculty Development Program and Elite NPTEL certification for the 12-week course titled Cryptography and Network Security during the January–April 2025 session with a consolidated score of 77%.



Dr. Indushree M
Assistant Professor
Department of CSE(CY)

- Dr. Indushree M has successfully completed the Faculty Development Program and NPTEL certification for the 12-week course titled Blockchain and its Applications during the January–April 2025 session with a consolidated score of 54%.

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

INDUSHREE M

for successfully completing the course

Blockchain and its Applications

with a consolidated score of 54 %

Online Assignments	23.6/25	Proctored Exam	30/75

Total number of candidates certified in this course: 4124

Jan-Apr 2025

(12 week course)

Prof. Huimanti Banerji

Coordinator, NPTEL

IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25CS085142201793 To verify the certificate No. of credits recommended: 3 or 4

NPTEL-AICTE

Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

INDUSHREE M

for successfully completing the course

Blockchain and its Applications

with a consolidated score of 54 %

Prof. Andrew Thangaraj

NPTEL Coordinator

IIT Madras

(Jan-Apr 2025)

Roll No: NPTEL25CS085142201793 Duration of NPTEL course : 12 Weeks

Dr. Shaila S. G
Professor and Chairperson
Department of CSE(DS)

- Dr. Shaila S G has been a Reviewer for “International Conference on Recent Innovations in Engineering Science & Technology-(ICRIET-2025) held at K. S. Institute of Technology, Bengaluru on 9th - 10th May 2025.

KAMMAVARI SANGHAM- 1952

K. S. INSTITUTE OF TECHNOLOGY

Affiliated to VTU & Approved by AICTE, New Delhi Accredited by NBA (CSE, ECE), NAAC with A+ Grade, QS-I Gauge-Gold Rating

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109

CERTIFICATE OF APPRECIATION

This certificate is awarded to

Dr.Shaila S G

Dayananda Sagar University, Bengaluru

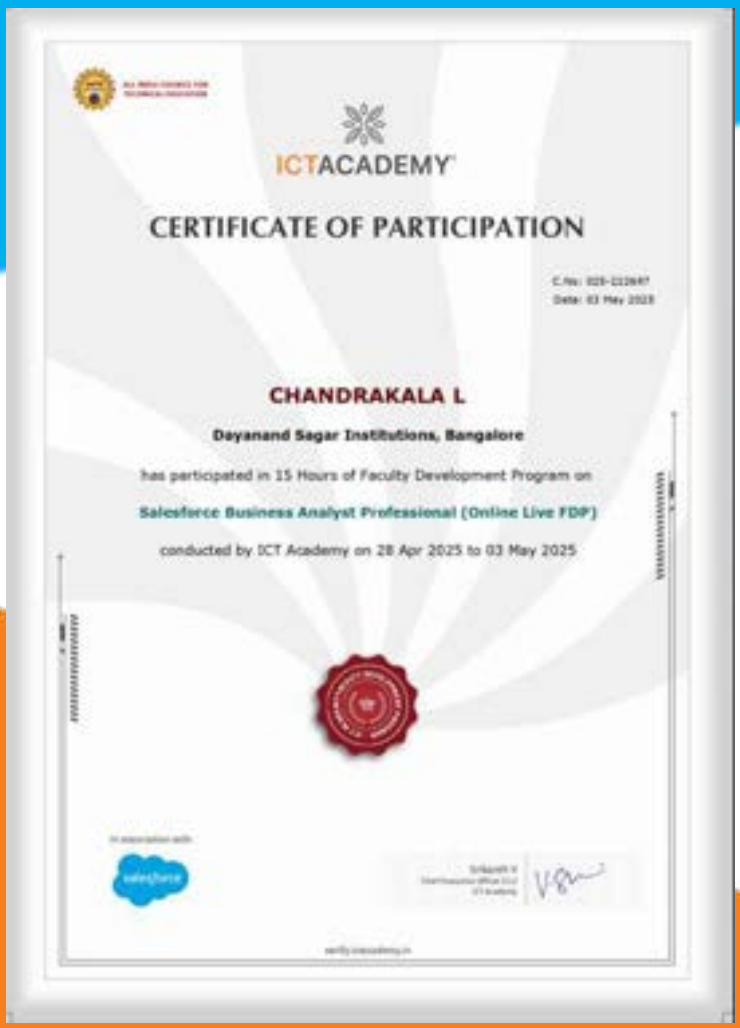
On behalf of the organizing committee of "International Conference on Recent Innovations in Engineering Science & Technology-(ICRIET-2025)", We would like to express our sincere gratitude for the invaluable scientific efforts of being a reviewer for ICRIET-2025 held at K. S. Institute of Technology, Bengaluru on 9th - 10th May 2025.

Dr. D R Swamy
Conference Convener
Executive Director-KSRIF

Dr. Dilip Kumar K
Conference Chair
Principal & Director

Prof. Chandrakala L
Assistant Professor
Department of CSE(DS)

- Prof. Chandrakala L has participated in a 15-hour Faculty Development program on Salesforce Business Analyst Professional (Online Live FDP) conducted by ICT Academy from 28th April 2025 to 03rd May 2025.



ICTACADEMY

CERTIFICATE OF PARTICIPATION

CHANDRAKALA L

Dayanand Sagar Institutions, Bangalore

has participated in 15 Hours of Faculty Development Program on

Salesforce Business Analyst Professional (Online Live FDP)

conducted by ICT Academy on 28 Apr 2025 to 03 May 2025

Prof. Prapti Bhattacharjee
Assistant Professor
Department of CSE(DS)

- Prof. Prapti Bhattacharjee has participated in a 15-hour Faculty Development program on Salesforce Business Analyst Professional (Online Live FDP) conducted by ICT Academy from 28th April 2025 to 03rd May 2025.

ICTACADEMY

CERTIFICATE OF PARTICIPATION

PRAPTI BHATTACHARJEE

Dayanand Sagar Institutions, Bangalore

has participated in 15 Hours of Faculty Development Program on

Salesforce Business Analyst Professional (Online Live FDP)

conducted by ICT Academy on 28 Apr 2025 to 03 May 2025

Dr. U. Pavan Kumar
Assistant Professor
Department of CSE(DS)

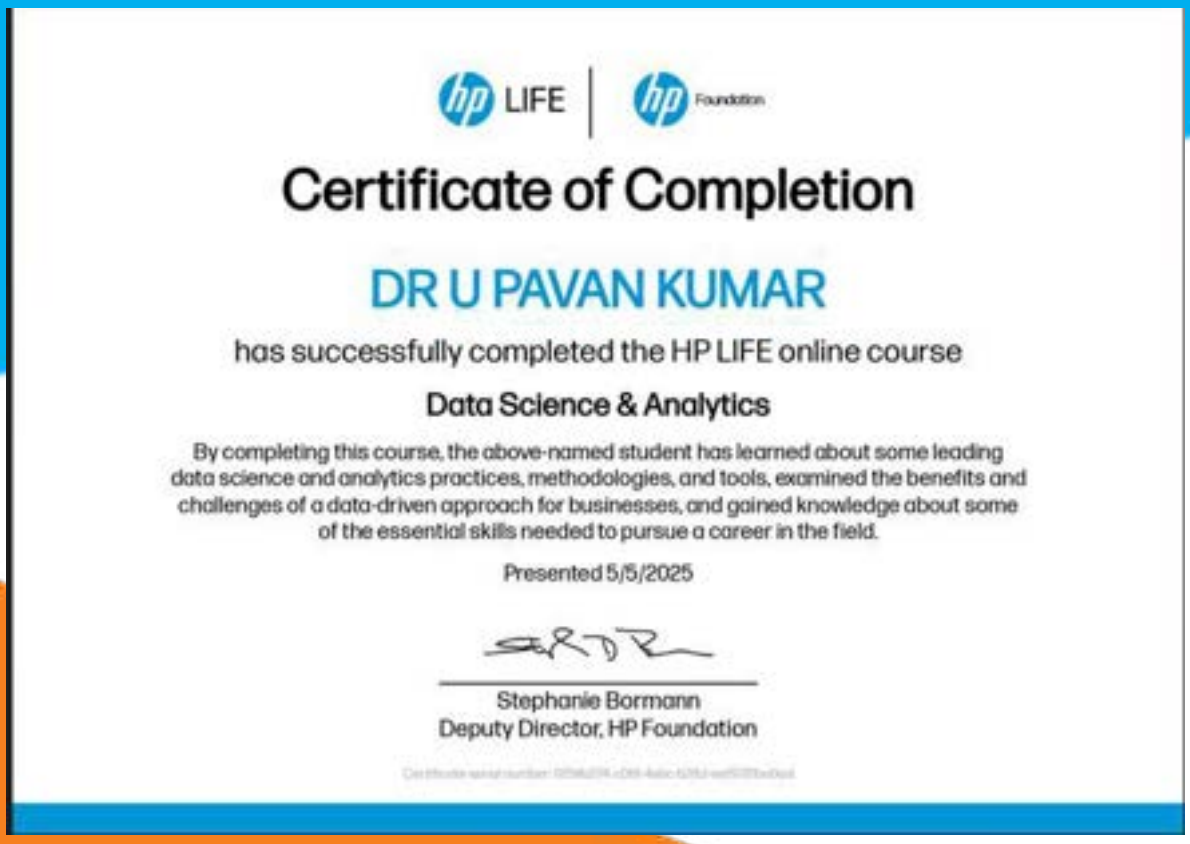
Dr. Santhosh Kumar G
Associate Professor
Department of CSE(DS)

- Dr. Santhosh Kumar G & Dr. U. Pavan Kumar have presented a paper entitled "Improved Wild Horse Optimization based Deep Neural Network for Speaker Identification and Verification" for the 3rd International Conference on 6G Communications, Networking and Signal Processing (SGCNSP-2024) at Nanyang Technological University, Singapore during 27-28th December 2024.

- Dr. U. Pavan Kumar & Dr. Santhosh Kumar G has presented paper entitled “Fault Detection in Power Line Communication Systems for Smart Grids by using One Class Support Vector Machine based Autoencoder" for 3rd International Conference on 6G Communications Networking and Signal Processing (SGCNSP-2024) at Nanyang Technological University, Singapore during 27-28th December 2024.

Dr. U. Pavan Kumar
Assistant Professor
Department of CSE(DS)

- Dr. U. Pavan Kumar has successfully completed the HP LIFE online course Data Science & Analytics on 05th May 2025.



hp LIFE | hp Foundation

Certificate of Completion

DR U PAVAN KUMAR

has successfully completed the HP LIFE online course

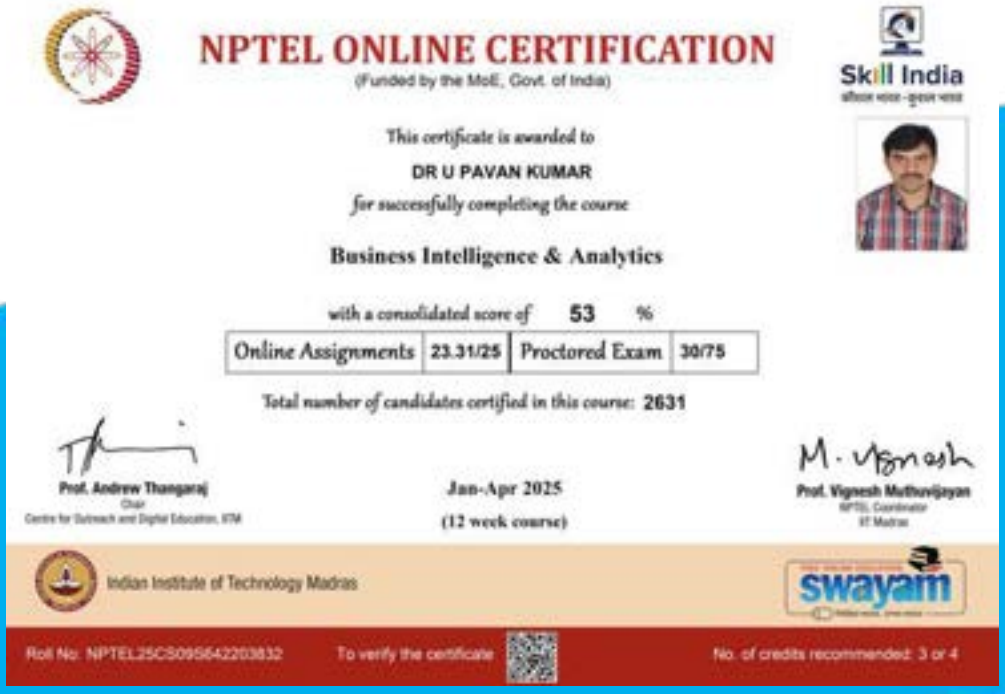
Data Science & Analytics

By completing this course, the above-named student has learned about some leading data science and analytics practices, methodologies, and tools, examined the benefits and challenges of a data-driven approach for businesses, and gained knowledge about some of the essential skills needed to pursue a career in the field.

Presented 5/5/2025

Stephanie Bormann
Deputy Director, HP Foundation

- Dr. U. Pavan Kumar has successfully completed the NPTEL Online Certification on “Business Intelligence & Analytics” during January-April 2025 (12-week course).



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

DR U PAVAN KUMAR

for successfully completing the course

Business Intelligence & Analytics

with a consolidated score of 53 %

Online Assignments	23.31/25	Proctored Exam	30/75

Total number of candidates certified in this course: 2631

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jan-Apr 2025
(12 week course)

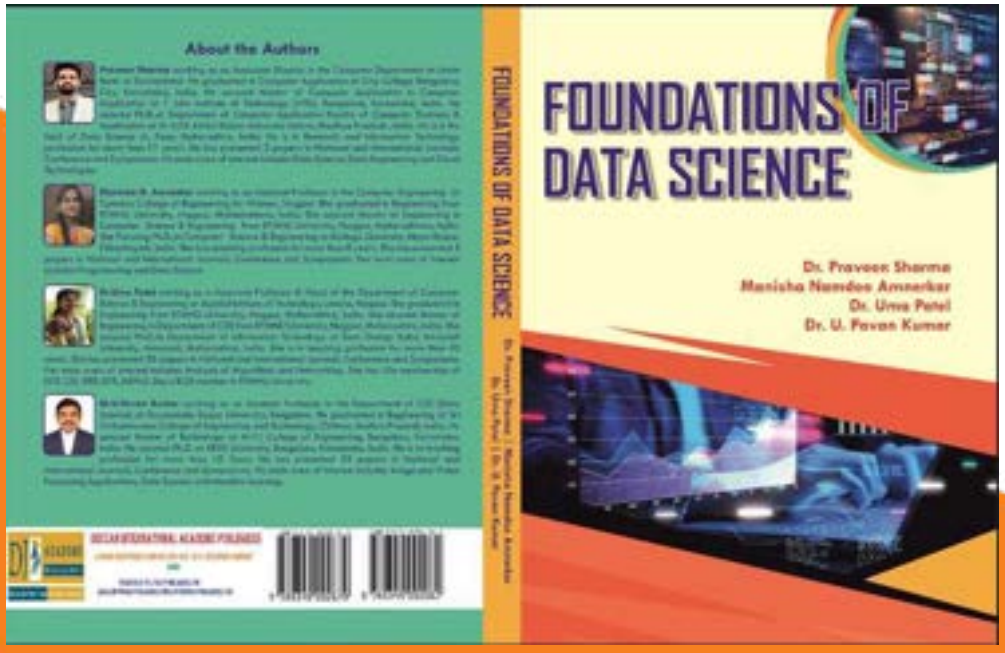
Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL25CS095642203832 To verify the certificate No. of credits recommended: 3 or 4

- Dr. U. Pavan Kumar has published a book entitled “Foundations of Data Science” by DECCAN INTERNATIONAL ACADEMIC PUBLISHERS, Registered Under MSME Government of India with ISBN: 978-93-49092-08-2.



Dr. Santhosh Kumar G
Associate Professor
Department of CSE(DS)

- Dr. Santhosh Kumar G has successfully completed the NPTEL Online Certification on “Cloud Computing” during January-April 2025 (12-week course).


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

DR SANTHOSH KUMAR G

for successfully completing the course

Cloud Computing

with a consolidated score of 65 %

Online Assignments	24.69/25	Proctored Exam	40.62/75

Total number of candidates certified in this course: 29703

Jan-Apr 2025

(12 week course)

Prof. Hainanti Banerji

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL23CS11S842203151 To verify the certificate No. of credits recommended: 3 or 4

Dr. Suresh Arumugam
Associate Professor
Department of CSE(DS)

- Dr. Suresh Arumugam has been appointed as the Global Professor of Practice in Emerging Technology at Golden Gate University—an eminent and prestigious position.

GOLDEN GATE UNIVERSITY
OFFICE OF THE PROVOST

Date: May 21st 2025

RE: Appointment Letter

Name: Dr. Suresh Arumugam

Email: it.suresh.a@gmail.com

Dear Dr. Suresh Arumugam,

On behalf of Golden Gate University (GGU), and on recommendation from, GGU Worldwide Curriculum Committee, Associate Dean, I am pleased to extend an invitation for you to serve as a Adjunct for GGU Worldwide with duties and responsibilities as assigned by the Dean. This letter outlines your status, rights, and responsibilities. The terms of the offer are as follows:

Location: Remote

Appointment: GGU Worldwide

Resources: Full access to the University Library, GGU issued email address, and access to MyGGU faculty and staff portal.

Effective Dates: May 2025

There are no benefits associated with this appointment. The position neither accrues tenure credit nor implies a promise of future employment. Appointments are determined prior to the beginning of each term. The appointment is only for the period and purposes specified, with no other interest or right obtained by virtue of such appointment. Future appointments are not guaranteed.

Please acknowledge your acceptance of this appointment as Global Professor of the Practice, should you have any questions about this appointment letter, please do not hesitate to contact me. We look forward to you joining the Golden Gate University Worldwide team and to the contributions that you will make to the university.

Dr.Poongodi T
Professor
Department of CSE

Natarajan Venkateswaran
Professor of Practice
Department of CSE

- Dr. Natarajan Venkateswaran, Professor of Practice and Dr. Poongodi, Professor, Department of Computer Science and Engineering, SOE, DSU delivered Expert Talks in the 1-week Faculty Development Programme (FDP) on "Generative AI and Future Computing" held at the School of Advanced Studies, S-VYASA Deemed-to-be-University in Bengaluru from May 12th to May 17th, 2025.

Dr. Bipin Kumar Rai
Professor
Department of CSE

- Dr. Bipin Kumar Rai, Professor, Department of CSE, contributed as a reviewer in the 3rd International Conference on Automation and Computation (IEEE: AUTOCOM-2025) organized by GRAPHIC ERA HILL UNIVERSITY, Deharadun during May 2025.

- Dr. Bipin Kumar Rai, Professor, Department of CSE, contributed as a reviewer in the 3rd IEEE International Conference on Computer, Electronics and Electrical Engineering and their Applications (IC2E3-2025), held from 15th - 16th May, 2025 at National Institute of Technology Uttarakhand, India.

IEEE UP SECTION (INDIA)

IAS IEEE INDUSTRY APPLICATIONS SOCIETY

National Institute of Technology, Uttarakhand

AN

INTERNATIONAL CONFERENCE ON

COMPUTER, ELECTRONICS AND ELECTRICAL ENGINEERING AND THEIR APPLICATIONS (IC2E3-2025)

(May 15th – 16th, 2025)

Certificate of Appreciation

This is to certify that Prof./Dr./Er. BIPIN KUMAR RAI from DAYANANDA SAGAR UNIVERSITY, INDIA has contributed as *Reviewer* in the *3rd International Conference on Computer, Electronics and Electrical Engineering and their Applications (IC2E3-2025)*, held from 15th to 16th May, 2025 at *National Institute of Technology Uttarakhand*, India.

Dr. Pankaj Kumar Pal
Organizing Secretary, IC2E3-2025

Dr. Sourav Bose
Organizing Chair, IC2E3-2025

NITUK/IC2E3/25/REV/70

Dr. Damodharan D
Assistant Professor
Department of CSE

- Dr. Damodharan D, Assistant Professor, Department of CSE, Dayananda Sagar University, has completed the 40 hours (3-Credits equivalent) Faculty Development Programme on QT-02 Foundations of Quantum Technologies during April 11- May 03, 2025, jointly organized by various Academies. This programme is funded by MeitY and endorsed by DST NQM / AICTE / UGC.

Electronics & ICT Academies

MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal

Faculty Development Programme on

QT-02 Foundations of Quantum Technologies

April 11 - May 03, 2025

Certificate of Completion

This is to certify that Dr. Damodharan D of Dayananda Sagar University has successfully completed the 40 hours (3-Credits equivalent) Faculty Development Programme jointly organized by various Academies. During the period, we found her / him to be hardworking, sincere and committed. Her / His performance was Excellent. This programme is funded by MeitY and endorsed by DST - NQM / AICTE / UGC .

M. P. Singh, Jt-Principal Coordinator; Sanjeev Manas, Jt-Principal Coordinator; B. V. Phani, Jt-Principal Coordinator; Dip Prakash Samajdar, Jt-Principal Coordinator; Gaurav Trivedi, Jt-Principal Coordinator

P. Radha Krishna, Jt-Principal Coordinator; Vishal Madyalkar, Program Director IIMACE; Mahipal P. Jadeja, Jt-Principal Coordinator; Pilli Emmanuel Shubhakar, Principal Coordinator

- Dr. Damodharan D, Assistant Professor, Department of CSE, has successfully participated in the National level online Faculty Development Programme on “The Foundations and Future of Quantum Computing" from 5th May to 9th May 2025, organized by Sri Sairam College of Engineering.

Dr Tanvir Habib Sardar
Associate Professor
Department of CSE

Dr. Pannangi Naresh
Assistant Professor
Department of CSE

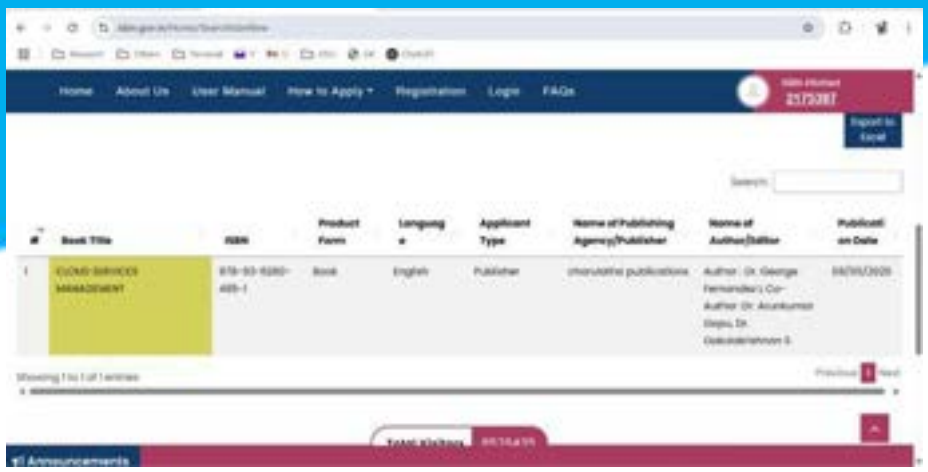
- Dr. Tanvir Habib Sardar, Associate Professor, and Dr. P. Naresh, Assistant Professor, Department of CSE, have published a research article entitled “Facial Expression Analysis for Efficient Disease Classification in Sheep Using a 3NM-CTA and LIFA-Based Framework” in the SCIE and Scopus index journal named IETE Journal of Research from Taylor and Francis publisher during 07th May 2025.

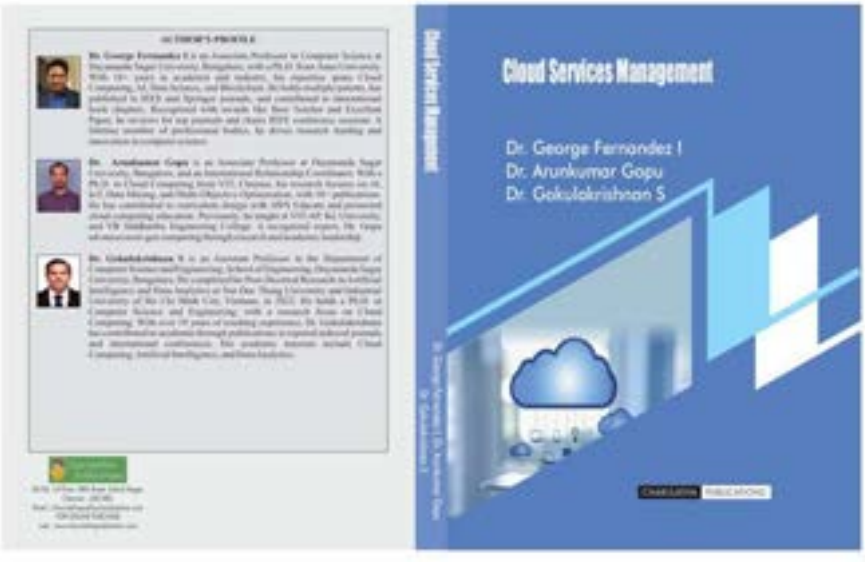
Dr. George Fernandez I
Associate Professor
Department of CSE

Dr. Arunkumar Gopu
Associate Professor
Department of CSE

Dr.Gokulakrishnan S
Assistant Professor
Department of CSE

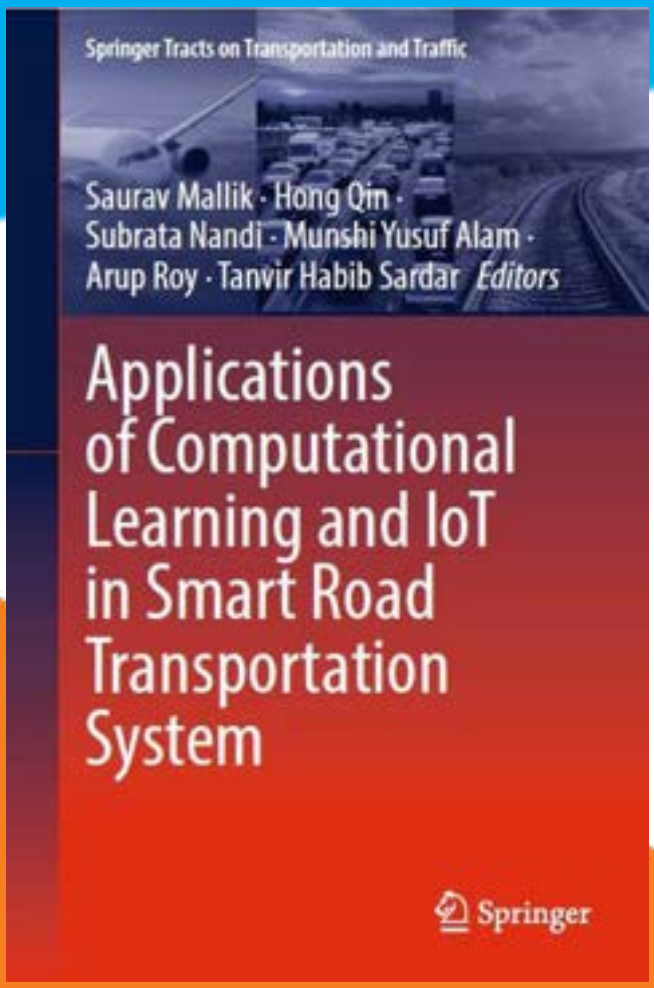
- Dr George Fernandez I, Dr. Arunkumar Gopu, Associate Professors, and Dr. Gokulakrishnan S, Assistant Professor, Department of CSE, published a book titled “Cloud Services Management” on 6th May 2025 with the publisher “Charulatha Publications” and the ISBN is 978-93-6260-465-1.





Dr Tanvir Habib Sardar
Associate Professor
Department of CSE

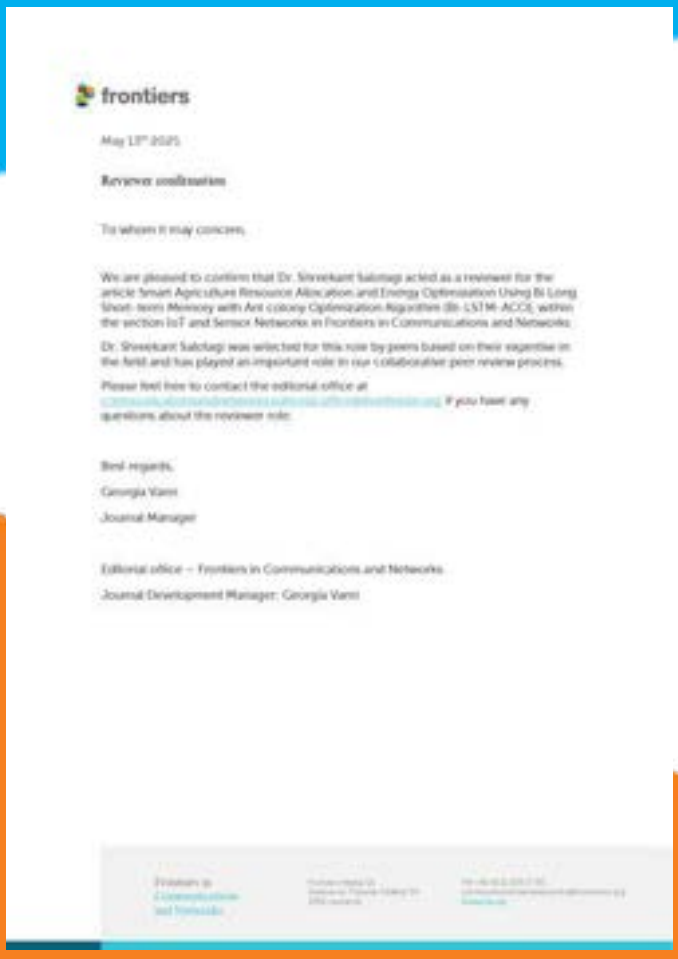
- Dr. Tanvir Habib Sardar, Associate Professor, Department of CSE, published a book titled “Applications of Computational Learning and IoT in Smart Road Transportation System” in May 2025 with the publisher “Springer Publications”.



- Dr. Tanvir Habib Sardar, Associate Professor, Department of CSE, published 3 ELSEVIER Conference Papers with the titles “Integrating Blockchain and Quantum Key Exchange with Deep Learning for Enhanced Medical Data”, “Harnessing Deep Learning and Time Series Models for Accurate Global Solar Radiation Prediction” and “Enhancing Security in MANETs with Deep Learning-Based Intrusion Detection” during 14th May 2025, which was presented in the Sixth International Conference on Futuristic Trends in Networks and Computing Technologies (FTNCT06) held in Graphic Era Hill University, Haldwani Campus, India from 23rd to 24th December 2024.

Dr. Shreekant Salotagi
Assistant Professor
Department of CSE

- Dr. Shreekant Salotagi, Assistant Professor, Department of CSE, acted as a reviewer for the article Smart Agriculture Resource Allocation and Energy Optimization Using Bi Long Short-term Memory with Ant colony Optimization Algorithm (Bi-LSTM-ACO), within the section IoT and Sensor Networks in Frontiers in Communications and Networks a Q2 Journal on 13th May 2025.



frontiers

May 13th 2025

Review confirmation

To whom it may concern,

We are pleased to confirm that Dr. Shreekant Salotagi acted as a reviewer for the article Smart Agriculture Resource Allocation and Energy Optimization Using Bi Long Short-term Memory with Ant colony Optimization Algorithm (Bi-LSTM-ACO), within the section IoT and Sensor Networks in Frontiers in Communications and Networks.

Dr. Shreekant Salotagi was selected for this role by peers based on their expertise in the field and has played an important role in our collaborative peer review process.

Please feel free to contact the editorial office at [redacted]. If you have any questions about this reviewer role.

Best regards,

Georgia Vanni

Journal Manager

Editorial office – Frontiers in Communications and Networks

Journal Development Manager: Georgia Vanni

Dr. Girisha G S
Professor & Chairperson
Department of CSE

- Dr. Girisha G S, Professor, Department of CSE, has successfully presented the research papers with the titles “Object Recognition and Tracking System for Visually Impaired People", “Face Revive: GAN-Based Restoration for Enhancing Facing Imagery” and “Interactive Autism Support System” in the 16th International Conference on Recent Engineering and Technology held on 16th to 17th May 2025 at East West College of Engineering, Bengaluru, India.


16th INTERNATIONAL CONFERENCE ON RECENT ENGINEERING & TECHNOLOGY 2025
ORGANIZED BY
EAST WEST COLLEGE OF ENGINEERING, INDIA
IN ASSOCIATION WITH
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING TECHNOLOGY
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN

Certificate of Registration


16th INTERNATIONAL CONFERENCE ON RECENT ENGINEERING & TECHNOLOGY 2025
ORGANIZED BY
EAST WEST COLLEGE OF ENGINEERING, INDIA
IN ASSOCIATION WITH
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING TECHNOLOGY
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN

Certificate of Participation


16th INTERNATIONAL CONFERENCE ON RECENT ENGINEERING & TECHNOLOGY 2025
ORGANIZED BY
EAST WEST COLLEGE OF ENGINEERING, INDIA
IN ASSOCIATION WITH
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING TECHNOLOGY
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN

Certificate of Participation

- Dr. Girisha G S, Professor, and Mr. Rakesh T M, Research Scholar, Department of CSE, published a research article entitled “Hybrid CNN-BiLSTM with CTC for Enhanced Text Recognition in Complex Background Images” in the Scopus-indexed Q3 Journal named Journal of Information Systems Engineering and Management during May 2025.

Journal of Information Systems Engineering and Management
2025, 10(5s)
e-ISSN: 2468-4376
https://www.jisem-journal.com/

Research Article

Hybrid CNN-BiLSTM with CTC for Enhanced Text Recognition in Complex Background Images

[1]Rakesh T M, [2]Girisha G S
[1]Department of CSE, School of Engineering, Dayananda Sagar University, Harohalli, Bangalore, 562112, Karnataka, India.
rakesh-tm-rs-cse@dsu.edu.in
[2]Department of CSE, School of Engineering, Dayananda Sagar University, Harohalli, Bangalore, 562112, Karnataka, India.
girisha-cse@dsu.edu.in

ARTICLE INFO

Received: 30 Dec 2024
Revised: 12 Feb 2025
Accepted: 26 Feb 2025

ABSTRACT

The problems that robotic reading of text faces such as poor light, messy backgrounds and blurriness, resemble those found in human vision. Addressing these concerns results in applications such as document digitization and assistive technology. The study introduces a way to help identify text by joining CNNs, BiLSTMs and a CTC decoder. This CNN part is able to detect spatial features of text even from crowded images, while BiLSTMs help recognize text printed in different styles, turned over and in varying sizes. Because the CTC decoder does not require separate segmentation of characters, the text is aligned accurately. On ICDAR 2015 and SVT datasets, the approach demonstrated by this study shows very high accuracy of 98.50% and 98.80%. Quality measurements reveal high accuracy of the model on motion-blurred (no more than 15 pixels), partially occluded (40%) and distorted (half of text is skewed by up to 30-degrees) images. It proposes a method that helps to identify text by using CNNs, BiLSTMs and a CTC decoder.

Keywords: Complex Background, OCR, CTC decoder, Bi-LSTM, CNN

INTRODUCTION:

The words in real-time images are often distorted, in different fonts, have uneven lighting and are overlapped by other things, thus making it hard for usual OCR technology to process them [1]. For this reason, the technology must be able to adjust to various conditions and ensure that text is recognized accurately in real life. Often, educational OCR systems first distinguish each character in the handwriting before they begin recognition. The problem with handling data this way is that errors during segmentation are likely to be repeated in recognition steps [2]. Many ways to identify handwriting do not succeed in recognizing various styles, mainly with distorted samples. CNNs focus on local areas and BiLSTMs look at the whole sequence, making it possible for the architecture to identify local patterns and notice the order in which they occur [3]. Adopting these two structures, the proposed model can find complex patterns in written text and preserve time order, thus leading to improved recognition.

Restoring damaged or lost text in an image is very difficult when there are many distractions in the background. Ways to fix damage in an image typically involve replacing the lost parts with similar-looking textures. While these techniques do well with general things and scenery, they cannot restore meaningful text that stores special and sequential information. It can be quite tough to recover exact characters when restoring a word or expression, given that most techniques are centred on the way the text looks. Despite this, some models may create the shape of a letter, but they generally cannot determine the correct letter when the context around it is essential. To solve this, a new approach applies a pipeline that integrates powerful ways to recognize and put back text [3]. First, a CNN-BiLSTM model is employed to spot the defective or missing parts of the text by examining both its visual features and the way the characters are arranged. At this point, a method that uses Bayesian statistics is employed to determine the most probable missing character. To place the predicted character, the position it should occupy is estimated with an image histogram. As a result, the corrupted text becomes readable again and fits smoothly within the image. This method is most helpful in life situations when the text is written overcomplicated scenes and regular OCR does not work properly. The method improves the accuracy of restoring texts from images by applying visual analysis, modelling

Dr. Revathi V
Associate Professor
Department of CSE

- Dr. Revathi V, Associate Professor, Department of CSE, contributed as Session Chair in the 6th International Conference of Emerging Technologies (INCET) 2025 is Technically Co-sponsored by IEEE Bangalore section in Jain College of Engineering, Belagavi, Karnataka, India from 22nd to 24th May 2025.

Jain College of Engineering
Belagavi, India

IEEE
BANGALORE SECTION

6th International Conference of Emerging Technology
(INCET 2025)

22nd – 24th May 2025

Certificate of Appreciation

This Certificate is proudly presented to Dr. Revathi V Affiliation Dayananda Sagar University, Bangalore for role of Session Chair in 6th International Conference of Emerging Technology (INCET 2025) during 22nd to 24th May 2025.

Dr. Krupa Rasane
Convener - INCET 2025

Dr. J. Shivakumar
General Chair - INCET 2025

Dr Rajesh T M
Associate Professor
Department of CSE

- Dr. Rajesh T M, Associate Professor, Mrs. Lavanya B Koppal Research Scholar, Department of CSE, and Dr. Vedamurthy K B, Karnataka Veterinary Animal and Fisheries Science University, Bengaluru, published a research article entitled “View of Enhanced Deep Residual Network based Self-Learning framework for Mango leaf disease Classification_ Focus on Anthracnose and Grey Blight” in the Scopus indexed Q3 Journal named Journal of Information Systems Engineering and Management during May 2025.

Journal of Information Systems Engineering and Management

Research Article

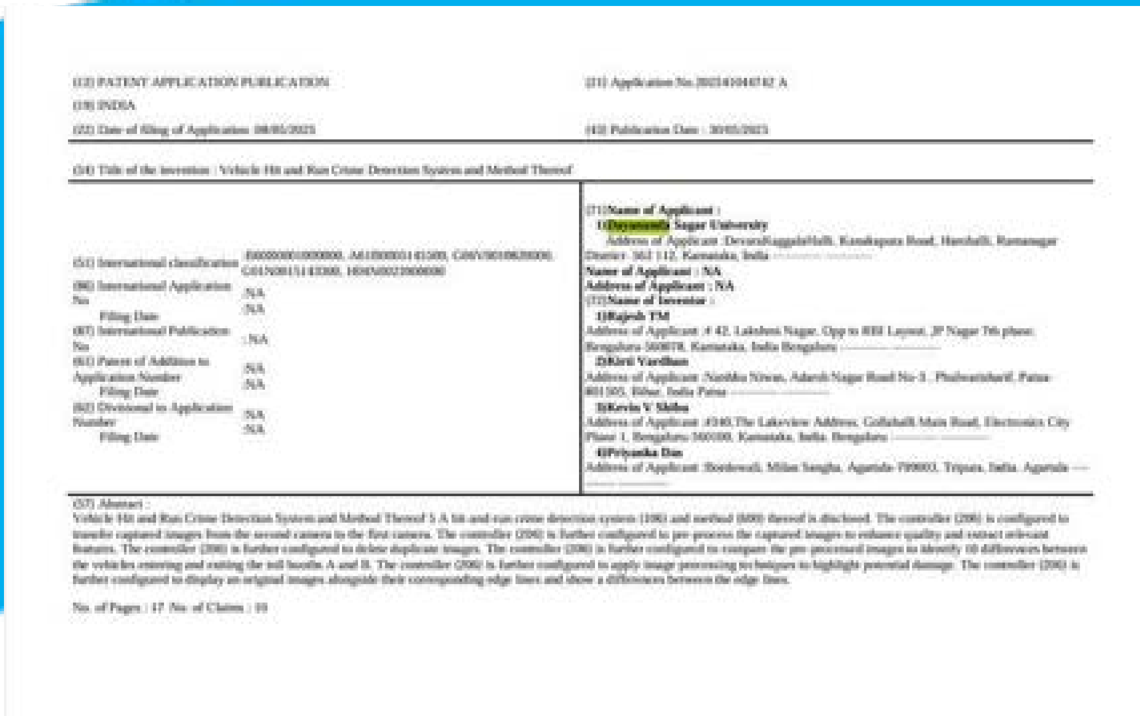
Enhanced Deep Residual Network based Self-Learning framework for Mango leaf disease Classification: Focus on Anthracnose and Grey Blight

ARTICLE INFO

ABSTRACT

INTRODUCTION

- Dr. Rajesh T M, Associate Professor, Mr. Kirti Vardhan(ENG22CS0342), Mr. Kevin V Shibu (ENG22CS0081), Ms. Priyanka Das(ENG22CS0397), 6th-semester students, Department of CSE published an Indian patent with the title “Vehicle Hit and Run Crime Detection System and Method Thereof” with the application no 202541044742A and the name of the applicant Dayananda Sagar University during 30th May 2025.



(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application: 08/05/2025

(21) Application No.202541044742 A

(43) Publication Date : 30/05/2025

(54) Title of the invention : Vehicle Hit and Run Crime Detection System and Method Thereof

(51) International classification	:[illegible]
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)Dayananda Sagar University
Address of Applicant :[illegible] Karnataka, India
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Rajesh TM
Address of Applicant :# 42, [illegible] Nagar, [illegible] JP Nagar 7th phase, Bengaluru [illegible] Karnataka, India Bengaluru
2)Kirti Vardhan
Address of Applicant :[illegible] Bihar, India Patna
3)Kevin V Shibu
Address of Applicant :[illegible] Electronics City Phase 1, Bengaluru [illegible] Karnataka, India. Bengaluru
4)Priyanka Das
Address of Applicant :[illegible] Tripura, India. Agartala

(57) Abstract :
Vehicle Hit and Run Crime Detection System and Method Thereof 5 A hit-and-run crime detection system (100) and method (600) thereof is disclosed. The controller (200) is configured to transfer captured images from the second camera to the first camera. The controller (200) is further configured to pre-process the captured images to enhance quality and extract relevant features. The controller (200) is further configured to delete duplicate images. The controller (200) is further configured to compare the pre-processed images to identify (i) differences between the vehicles entering and exiting the toll booths A and B. The controller (200) is further configured to apply image processing techniques to highlight potential damage. The controller (200) is further configured to display an original images alongside their corresponding edge lines and show a differences between the edge lines.

No. of Pages : 17 No. of Claims : 10

Dr. Renuka Devi M.N
Assistant Professor
Department of CSE

Prof. Kavyashree I Pattan
Assistant Professor
Department of CSE

Dr Rajesh T M
Associate Professor
Department of CSE

Dr. Praveen Kulkarni
Associate Professor
Department of CSE

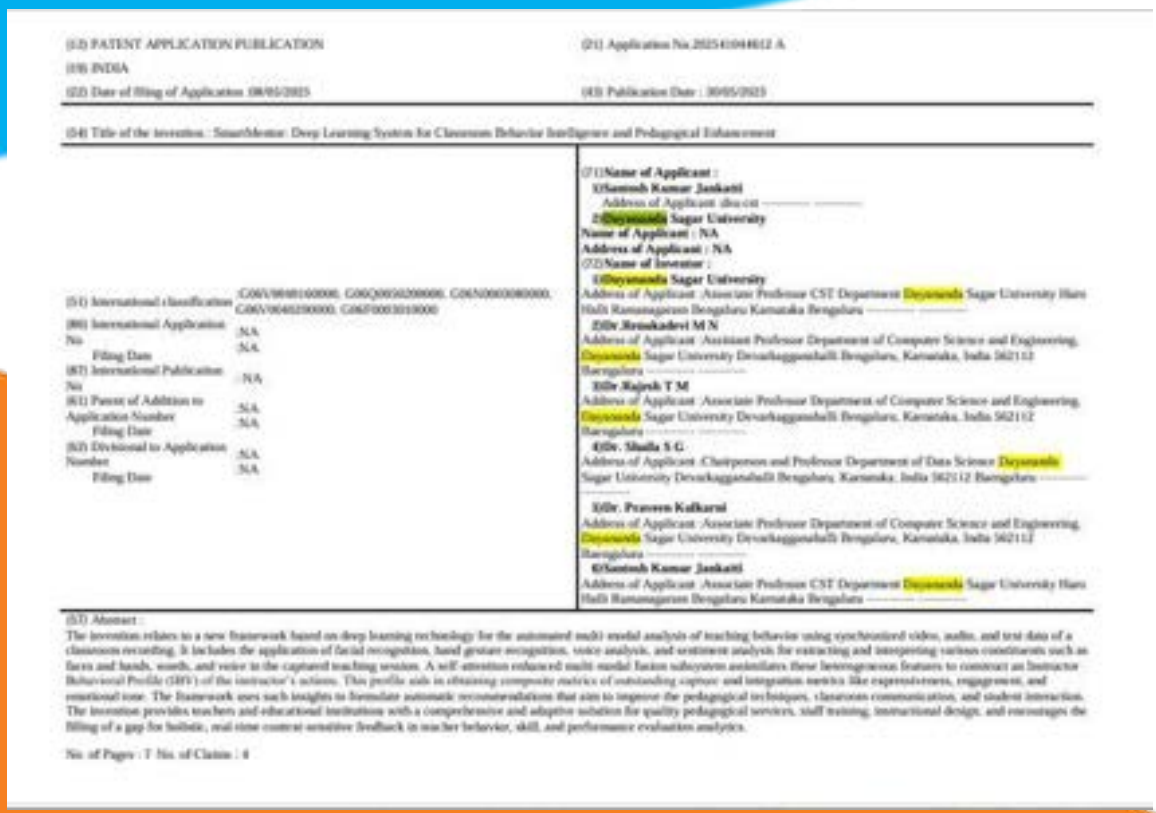
- Dr. Renuka Devi M N, Prof. Kavyashree I Pattan, Assistant Professors, and Dr Rajesh T M, Dr Praveen Kulkarni, Associate Professors, published a paper titled “A Novel Methods for Detecting Normal and Abnormal Crowd Dynamics using Optical Flow and Energy Level Analysis” as a book chapter in the book Advances in Electrical and Computer Technologies published by Taylor & Francis group which was presented in the Sixth International Conference on Advances in Electrical and Computer Technologies 2024 (ICAECT 2024) organized by the Sengunthar Engineering College (Autonomous), Tiruchengode, TamilNadu, India, and Diligentec Solutions, Coimbatore, Tamil Nadu, India, during 26–27 September 2024 with ISBN 9781003515470.

Dr Rajesh T M
Associate Professor
Department of CSE

Dr. Praveen Kulkarni
Associate Professor
Department of CSE

Dr. Renuka Devi M.N
Assistant Professor
Department of CSE

- Dr. Rajesh T M, Dr. Praveen Kulkarni, Associate Professors, and Dr. Renuka Devi M N, Assistant Professor, Department of CSE, published an Indian patent with the title “SmartMentor: Deep Learning System for Classroom Behavior Intelligence and Pedagogical Enhancement” with the application no 202541044612A and the name of the inventor Dayananda Sagar University during 30th May 2025.



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541044612 A

(19) INDIA

(22) Date of filing of Application :08/05/2025

(43) Publication Date : 30/05/2025

(54) Title of the invention : SmartMentor: Deep Learning System for Classroom Behavior Intelligence and Pedagogical Enhancement

(51) International classification : G06N0003080000, G06Q0050200000, G06N0003080000, G06V0040520000, G06T0007010000

(86) International Application No : NA
Filing Date : NA

(87) International Publication No : NA

(61) Parent of Addition to Application Number : NA
Filing Date : NA

(62) Divisional to Application Number : NA
Filing Date : NA

(71)Name of Applicant :
1)Santosh Kumar Jankatti
Address of Applicant :dha cst
2)Dayananda Sagar University
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dayananda Sagar University
Address of Applicant :Associate Professor CST Department Dayananda Sagar University Hars Halli Ramanagaram Bengaluru Karnataka Bengaluru
2)Dr.Renukadevi M N
Address of Applicant :Assistant Professor Department of Computer Science and Engineering, Dayananda Sagar University Devarkagganahalli Bengaluru, Karnataka, India 562112 Bangalore
3)Dr.Rajesh T M
Address of Applicant :Associate Professor Department of Computer Science and Engineering, Dayananda Sagar University Devarkagganahalli Bengaluru, Karnataka, India 562112 Bangalore
4)Dr. Shaila S G
Address of Applicant :Chairperson and Professor Department of Data Science Dayananda Sagar University Devarkagganahalli Bengaluru, Karnataka, India 562112 Bangalore
5)Dr. Praveen Kulkarni
Address of Applicant :Associate Professor Department of Computer Science and Engineering, Dayananda Sagar University Devarkagganahalli Bengaluru, Karnataka, India 562112 Bangalore
6)Santosh Kumar Jankatti
Address of Applicant :Associate Professor CST Department Dayananda Sagar University Hars Halli Ramanagaram Bengaluru Karnataka Bengaluru

(57) Abstract :
The invention relates to a new framework based on deep learning technology for the automated multi-modal analysis of teaching behavior using synchronized video, audio, and text data of a classroom recording. It includes the application of facial recognition, hand gesture recognition, voice analysis, and sentiment analysis for extracting and interpreting various constituents such as faces and hands, sounds, and voice in the captured teaching session. A self-attention enhanced multi-modal fusion subsystem assimilates these heterogeneous features to construct an Instructor Behavioral Profile (IBV) of the instructor's actions. This profile aids in obtaining composite metrics of outstanding capture and integration metrics like expressiveness, engagement, and emotional tone. The framework uses such insights to formulate automatic recommendations that aim to improve the pedagogical techniques, classroom communication, and student interaction. The invention provides teachers and educational institutions with a comprehensive and adaptive solution for quality pedagogical services, staff training, instructional design, and encourages the filling of a gap for holistic, real-time context-sensitive feedback in teacher behavior, skill, and performance evaluation analytics.

No. of Pages : 7 No. of Claims : 4

Prof. S. Benaka Santhosha
Assistant Professor
Department of CSE

- Prof. S. Benaka Santhosha, Assistant Professor, Department of CSE, has published a paper titled “Robust Partial Image Security Through Chaotic Map and Non-adaptive Techniques” in the Springer Nature Q1 Journal SN Computer Science during May 2025.

SN

ORIGINAL RESEARCH

Robust Partial Image Security Through Chaotic Map and Non-adaptive Techniques

K. V. Sudheesh · S. Benaka Santhosha · Kiran Puttegowda

Abstract

Keywords Image security · Partial image encryption · Non adaptive · Bitplanes · Chaotic map

Introduction

Dr. Jayavrinda Vrindavanam V
Professor and Chairperson
Department of CSE (AIML)

- Dr. Jayavrinda Vrindavanam, Professor & chairperson, Department of CSE (AI&ML), has received the certificate for being a distinguished speaker at the INTERDISPILINARY SYMPOSIUM: AI in Neuroscience, held on 15th May 2025, organized in collaboration with CDSIMER, Dean School of Engineering, and NIMHANS.


DAYANANDA SAGAR UNIVERSITY

CERTIFICATE

OF APPRECIATION

PRESENTED TO

Dr. Jayavrinda Vrindavanam

Dean
School of Engineering

Principal and Dean
CDSIMER

Dr. M Lakshmanan
Assistant Professor
Department of CSE(AIML)

Dr. Mude Nagarjuna Naik
Assistant Professor
Department of CSE(AIML)

Prof. Sriramkumar R
Assistant Professor
Department of CSE(AIML)

- Dr. M Lakshmanan, Dr. Mude Nagarjuna Naik, Prof. Sriramkumar R, Assistant Professors, Department of CSE(AI&ML) has received the certificate for presenting a paper titled “Blockchain-Based-Framework for Enhancing Privacy and Security of Health Care Data Using Hybrid Consensus Algorithms” at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.


SRM IET

4th International Conference on

Deep sciences for computing and communications - IconDeepCom - 2025

April 29th & 30th, 2025

CERTIFICATE OF PARTICIPATION


SRM IET

4th International Conference on

Deep sciences for computing and communications - IconDeepCom - 2025

April 29th & 30th, 2025

CERTIFICATE OF PARTICIPATION


SRM IET

4th International Conference on

Deep sciences for computing and communications - IconDeepCom - 2025

April 29th & 30th, 2025

CERTIFICATE OF PARTICIPATION

Dr. M Lakshmanan
Assistant Professor
Department of CSE(AIML)

Prof. Mitha Guru
Assistant Professor
Department of CSE(AIML)

Prof. Sriramkumar R
Assistant Professor
Department of CSE(AIML)

- Dr. Lakshmanan M, Prof. Sriramkumar R, Prof. Mithaguru Assistant Professors, Department of CSE(AI&ML) has received the certificate for presenting the research paper titled “Blockchain – Based HSFO Framework for Privacy Preservation of Healthcare Data Using Hybrid Algorithms” in the 2025 IEEE International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering organized by the Department of Computer Science and Engineering, R.M.K. Engineering College, Chennai, India during 7th and 8th May, 2025.

Dr. Shreyas Rajendra Hole
Assistant Professor
Department of CSE(AIML)

- Dr. Shreyas Rajendra Hole, Assistant Professor, Department of CSE(AI&ML) has received the certificate in sincere appreciation of your valuable contribution as a Session Chair at the 5th International Conference on Intelligent Systems and Machine Learning (ICISML - 2025) organized by the Department of Computer Science and Engineering, NIT Meghalaya, India, held on May 16–17, 2025. Your insightful keynote address greatly enriched the academic discourse and inspired participants.

CERTIFICATE

OF APPRECIATION

Presented to

DR. SHREYAS RAJENDRA HOLE

(Dayananda Sagar University, Banglore, India)

In sincere appreciation of your valuable contribution as a **Session Chair** at the **5th International Conference on Intelligent Systems and Machine Learning (ICISML - 2025)** organized by the Department of Computer Science and Engineering, NIT Meghalaya, India, held on May 16-17, 2025.Your insightful keynote address greatly enriched the academic discourse and inspired participants.

General Chair Signature | Program Chair Signature | Convenor Signature

- Dr. Shreyas Rajendra Hole, Assistant Professor, Department of CSE(AI&ML) has received the certificate received a certificate in recognition and appreciation of his valuable support as a member of the Workshop chair for the 5th International Conference on Intelligent Systems and Machine Learning (ICISML - 2025) organized by the Department of Computer Science and Engineering, NIT Meghalaya, India, held on May 16-17, 2025.

Dr. Joshuva Arockia Dhanraj
Associate Professor
Department of CSE(AIML)

- Dr. Joshuva Arockia Dhanraj, Associate Professor from the Department of CSE (AI&ML), has received a certificate for participating in the AICTE Recognized Faculty Development Programme on AI and Cloud-based Tools for Research Conducted by Computer Science and Engineering Department from 24/03/2025 to 28/03/2025 (One Week) at NITTTR, Chandigarh.

Certificate No: ICT-32055/25

National Institute of
Technical Teachers Training and Research
Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

JOSHUVA AROCKIA DHANRAJ

DAYANANDA SAGAR UNIVERSITY, BENGALURU
Karnataka

Participated in the AICTE Recognized Faculty Development Programme

on

AI and Cloud based Tools for Research

Conducted by

Computer Science and Engineering Department

from

24/03/2025 to 28/03/2025 (One Week)

at

NITTTR, Chandigarh

Coordinator

Director

- Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE(AI&ML) has received a certificate for participated in the International Conference on Artificial Intelligence in Health care (ICAIH 2025) organized by the School of Information Science and Technology, AIMIT, St Aloysius (Deemed to be University), Mangaluru, Karnataka, India in association with Springer held on March 20-21, 2025.

- Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE(AI&ML), has received the certificate for presenting a paper titled “A Data-Driven Digital Twin Approach for Predicting State of Charge and Health in Lithium-Ion Batteries Using Attention-based RNN and DBNN” at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India, in association with Universiti Putra Malaysia, Serdang, Malaysi,a on April 29th & 30th, 2025

- Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE(AI&ML) has received the certificate for presenting a paper titled "Integrating IoT and Random Forest Classifier for Crop Recommendation and Cultivation: Real-Time Analysis of Nitrogen, Phosphorus, Potassium, and pH in Soil" at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025

- Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE (AI&ML), has received the certificate in recognition of their outstanding research contribution to Concepts and Applications of Brain-Computer Interfaces, published by IGI Global Scientific Publishing; ©2025. With gratitude for your dedication to advancing knowledge and scholarship.

- Dr. Joshuva Arockia Dhanraj, Associate Professor, Department of CSE(AI&ML) has received the certificate for presenting a paper titled “AI-Driven Precision Diagnosis through Enhancing Healthcare Efficiency with Ensemble Machine Learning Models” at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.

SRM Institute of Science and Technology
Kattankulathur, Chennai-603203
College of Engineering and Technology, School of Computing,
Department of Computational Intelligence in association with Universiti Putra Malaysia

4th International Conference on

Deep sciences for computing and communications - IconDeepCom - 2025

April 29th & 30th, 2025

CERTIFICATE OF PARTICIPATION

This is to certify that Joshuva Arockia Dhanraj has presented a paper titled

AI-Driven Precision Diagnosis through Enhancing Healthcare Efficiency with Ensemble Machine Learning Models at the

Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.

Dato Dr. Shamala Subramaniam
Program Chair- IconDeepCom 2025
Professor, Universiti Putra Malaysia

Dr. G. Maragatham
Convenor - IconDeepCom 2025
Professor, CINTEL, SRMIST

Dr. R. Andie Uthra
Program Chair- IconDeepCom 2025
Professor & Head – CINTEL, SRMIST

Dr. Mude Nagarjuna Naik
Assistant Professor
Department of CSE(AIML)

- Dr. Mude Nagarjuna Naik, Assistant Professor, Department of CSE (AI&ML), has successfully participated in the 1st One Week International EDP (ONLINE) on “How to Publish Research Papers in High-Impact Factor Journals and Research Ethics to Prevent Retraction”. The EDP is organized by the School of Electronics Engineering at VIT-AP University, Amaravati, from 17th to 24th April 2025.

VIT-AP UNIVERSITY

IEEE

Certificate of Participation

This is to certify that

Mude Nagarjuna Naik

Dayananda Sagar University

has successfully participated in the 1st One Week International EDP (ONLINE) on **"How to Publish Research Papers in High-Impact Factor Journals and Research Ethics to Prevent Retraction"**. The EDP is organized by the School of Electronics Engineering at VIT-AP University, Amaravati, during 17th -24th April 2025

Dr. Chandan Nayak
Coordinator, SENSE
VIT-AP University

Dr. Umakanta Nanda
Dean, SENSE
VIT-AP University

Dr. S.V. Kota Reddy
Vice Chancellor
VIT-AP University

- Dr. Mude Nagarjuna Naik, Assistant Professor, Department ofCSE(AI&ML) has received the certificate for presenting a paper titled INTELLIGENT VIDEO SURVEILLANCE SYSTEM: AI-Powered Real-Time Monitoring and Threat Detection at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.


SRM

SRM Institute of Science and Technology

Kattankulathur, Chennai-603203

College of Engineering and Technology, School of Computing,

Department of Computational Intelligence in association with Universiti Putra Malaysia

4th International Conference on

Deep sciences for computiung and communications - IconDeepCom - 2025

April 29th & 30th, 2025

CERTIFICATE OF PARTICIPATION

This is to certify that Dr. Mude Nagarjuna Naik has presented a paper titled

INTELLIGENT VIDEO SURVEILLANCE SYSTEM : AI-Powered Real-Time Monitoring and Threat Detection

at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th , 2025.

Dato Dr. Sitiamala Subramaniam
Program Chair- IconDeepCom 2025
Professor, Universiti Putra Malaysia

Dr. G. Maragatham
Convenor - IconDeepCom 2025
Professor, CINTEL, SRMIST

Dr. R. Annie Uthra
Program Chair- IconDeepCom 2025
Professor & Head - CINTEL, SRMIST

- Dr. Mude Nagarjuna Naik, Assistant Professor, Department of CSE (AI&ML), has received a certificate for successfully completing the NPTEL course (12 weeks) Introduction to Machine Learning.


NPTEL-AICTE

Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

MUDE NAGARJUNA NAIK

for successfully completing the course

Introduction to Machine Learning

with a consolidated score of 49 %

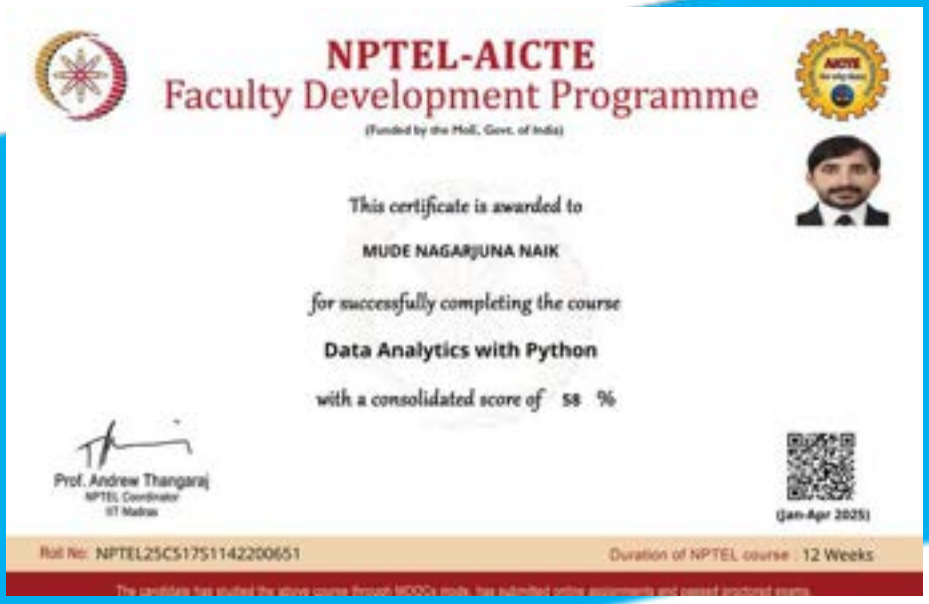
Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Apr 2025)

Roll No: NPTEL25CS46S342204173

Duration of NPTEL course : 12 Weeks

- Dr. Mude Nagarjuna Naik, Assistant Professor, Department of CSE (AI&ML), has received a certificate for successfully completing the NPTEL course (12 weeks) Data Analytics with Python.



Dr. Bhavana Rikhari
Assistant Professor
Department of Chemistry

- Dr. Bhavana Rikhari has been awarded a two-year research project titled "Advanced Chrome-Free Acid Anodization for Corrosion Protection of Aircraft-Grade Aluminium Alloys" under the Early Career Research Award (ECRA) scheme by the Vision Group on Science and Technology (VGST), Government of Karnataka. The project has been sanctioned with a total funding support of Rs. 10 lakhs.

Dr. M Lakshmanan
Assistant Professor
Department of CSE(AIML)

- Dr. M Lakshmanan, Dr. Mude Nagarjuna Naik, Prof. Sriramkumar R, Assistant Professors, Department of CSE(AI&ML) has received the certificate for presenting a paper titled Blockchain-Based-Framework for Enhancing Privacy and Security of Health Care Data Using Hybrid Consensus Algorithms at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.

SRM Institute of Science and Technology
Kattankulathur, Chennai-603203
College of Engineering and Technology, School of Computing,
Department of Computational Intelligence in association with Universiti Putra Malaysia

4th International Conference on

Deep sciences for computiung and communications - IconDeepCom - 2025

April 29th & 30th, 2025

CERTIFICATE OF PARTICIPATION

This is to certify that M.Lakshmanan has presented a paper titled Blockchain-Based Framework for Enhancing Privacy and Security of Health Care Data Using Hybrid Consensus Algorithms at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.

Dato Dr. Sitamala Subramaniam
Program Chair- IconDeepCom 2025
Professor, Universiti Putra Malaysia

Dr. G. Maragatham
Convenor - IconDeepCom 2025
Professor, CINTEL, SRMIST

Dr. R. Anile Ultra
Program Chair- IconDeepCom 2025
Professor & Head – CINTEL, SRMIST

Dr. Venkataramanan N.S.
Associate Professor
Department of Chemistry

- Dr. Venkataramanan N.S., Associate Professor, Department of Chemistry, School of Engineering, DSU, has published a research article with title “Evaluating the drug delivery and sensing performance of XB23N24, (X = B, Al, Ga) nanocages for gemcitabine anticancer drug” in the Journal “Computational and Theoretical Chemistry” with Q2 quartile.

Computational and Theoretical Chemistry

Evaluating the drug delivery and sensing performance of $XB_{23}N_{24}$ (X = B, Al, Ga) nanocages for gemcitabine anticancer drug

Dr. A V Raghu
Professor
Department of Chemistry

- Dr. A V Raghu, Professor, Department of Chemistry, School of Engineering, DSU, has published a research article with the title “Fabrication of pullulan/Syzygium kanarense-ZnO nanocomposite films for effective topical treatment of diabetes-induced wounds ” in the Journal “Next Nanotechnology”.

Next Nanotechnology

Research article

Fabrication of pullulan/*Syzygium kanarense*-ZnO nanocomposite films for effective topical treatment of diabetes-induced wounds

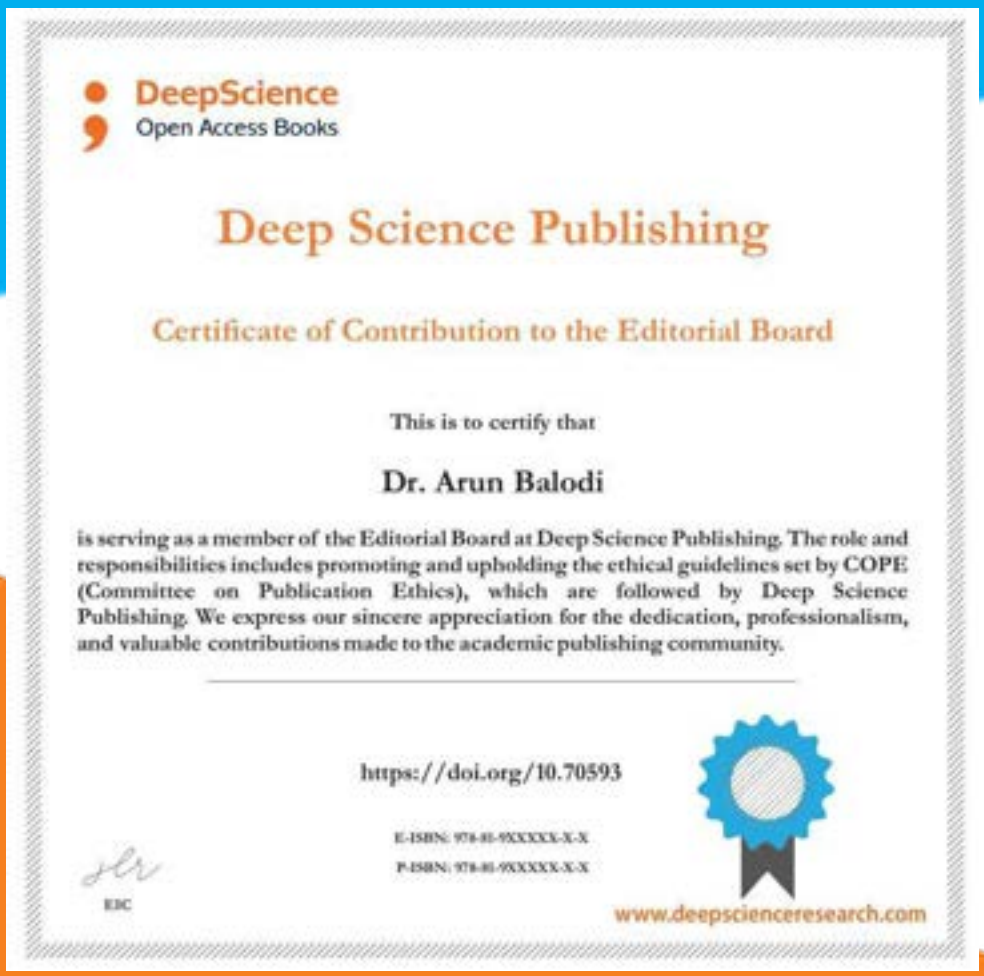
Dr. Seema Tharannum
Professor
Dept. of Biological Sciences

Dr. P Wagdevi
Assistant Professor & Assistant Registrar
Dept. of Humanities

- Dr. Seema Tharannum, Professor and Dr. Wagdevi P, Assistant Professor from Department of Biological sciences, SOE, DSU along with Ms.Vaishnavi Sugumar and Ms.Tanya Gopal, 6th semester students of B Tech (AIML) presented a paper titled ' Mycotoxins: A comprehensive review on occurrence, types, symptoms, diseases and control strategies' at Scopus indexed 4th International Health Economics and Outcomes ResearchConference - Innovative Healthcare 2025: Integrating Real-World Data, Patient-Centric Research, Regulatory Advancements and Digital Transformation, dated: 24 to 26 April, 2025 organized by ISPOR India-Andhra Pradesh Chapter in association with ISPOR RIPER, India Student Chapter, Raghavendra Institute of Pharmaceutical Education and Research (RIPER)- Autonomous, Anantapur, Andhra Pradesh - 515721, India.

Dr. Arun Balodi
Professor & Chairperson
Department of ECE

- Dr. Arun Balodi, Professor and Chairman of the Department of Electronics and Communication Engineering at Dayananda Sagar University, has been recognized for his role as a member of the Editorial Board at Deep Science Publishing.



DeepScience
Open Access Books

Deep Science Publishing

Certificate of Contribution to the Editorial Board

This is to certify that

Dr. Arun Balodi

is serving as a member of the Editorial Board at Deep Science Publishing. The role and responsibilities includes 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.

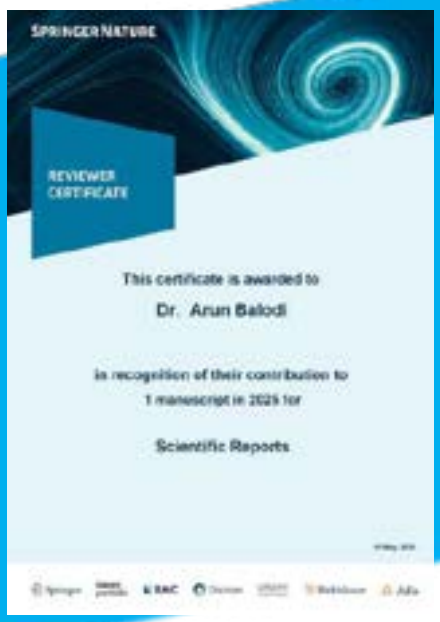
https://doi.org/10.70593

E-ISBN: 978-81-9XXXXX-X-X
P-ISBN: 978-81-9XXXXX-X-X

EIC

www.deepscienceresearch.com

- Dr. Arun Balodi, Professor and Chairman of the Department of Electronics and Communication Engineering at Dayananda Sagar University, has been recognized for his scholarly contribution as a peer reviewer for Scientific Reports, a prestigious journal from Springer Nature.



- Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, Dayananda Sagar University, has published the paper, titled “Machine Learning Based Adaptive Traffic Prediction and Control Using Edge Impulse Platform,”.

Dr. Supraja Eduru
Assistant Professor
Department of ECE

- Dr. Supraja Eduru, Assistant Professor, Department of Electronics and Communication Engineering, School of Engineering at Dayananda Sagar University, Bangalore, has been honored with a Certificate of Appreciation for her role as an Expert Reviewer at the prestigious IEEE Bangalore Humanitarian Technology Conference (BHTC) 2025.

IEEE

IEEE

BHTC 2025

IEEE Bangalore Humanitarian Technology Conference

Certificate of Appreciation

This is to recognize the contribution of

Dr. Supraja Eduru

Dayananda Sagar University

Expert Reviewer

for IEEE Bangalore Humanitarian Technology Conference BHTC - 2025, held on 25th April 2025 organized by IEEE Bangalore Section in collaboration with IEEE NKSS hosted at KLS GIT Belagavi.

Prof. Abhishek Deshmukh
Organizing Chair, BHTC
Chair, IEEE NKSS

Dr. M. S. Patil
Principal
KLS GIT, Belagavi

Dr. Chengappa Rajendra
Vice-Chair, Technical Activities
IEEE, Bangalore Section

Dr. Chandrakanta Kumar
Chair
IEEE, Bangalore Section

IEEE Conference ID: 64616

- Dr. Supraja Eduru, Assistant Professor, Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, was honoured with a Certificate of Appreciation for her valuable contribution as a reviewer at the Second IEEE International Conference on Electronics, Communication, Computing and Control Technology (IEEE ICECCC 2025).

CMR INSTITUTE OF TECHNOLOGY

#132, AECS Layout, ITPL Main Road, Kundalahalli, Bengaluru-560 037

Certificate of Appreciation

This is to certify that

Prof. SUPRAJA EDURU from DAYANANDA SAGAR UNIVERSITY

Has reviewed research papers as a REVIEWER for the Second IEEE International Conference on Electronics, Communication, Computing and Control Technology (IEEE ICECCC 2025) hosted by the Department of Electronics and Communications Engineering, CMR Institute of Technology, Bengaluru during 1st and 2nd May 2025.

Your contribution to this International Conference is highly appreciated.

General Chair, ICECCC 2025 — Principal

Dr. Vinu R
Associate Professor
Department of ECE

- Dr. Vinu R, Associate Professor in the Department of Electronics and Communication Engineering, Dayananda Sagar University, has co-authored a research paper titled “Image Processing for Detecting Melanoma Skin Cancer Using an Optimized Rotation-Invariant Coordinate Convolutional Neural Network.”

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Journal of Mechanics in Medicine and Biology | Online Ready

IMAGE PROCESSING FOR DETECTING MELANOMA SKIN CANCER USING AN OPTIMIZED ROTATION-INVARIANT COORDINATE CONVOLUTIONAL NEURAL NETWORK

S. PERUMAL SANKAR, R. VINU, S. SREELEKSHMI, and DEEPA ELIZABETH GEORGE

https://doi.org/10.1142/S0219519425500058 | Cited by: 0 (Source: Crossref)

Dr. Pushpa Mala S
Associate Professor
Department of ECE

- Dr. Pushpa Mala S, Associate Professor, Department of Electronics and Communication Engineering, School of Engineering from Dayananda Sagar University, who served as a Session Chair at the 3rd IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS 2025). The conference was held on April 28–29, 2025, at SJC Institute of Technology, in association with the IEEE Bangalore Section.

|| Jai Sri Gurudev ||
Sri Adichunchanagiri Shikshana Trust (R.)

SJC INSTITUTE OF TECHNOLOGY

(An Autonomous Institution under VTU from 2024-25)

AICTE Approved, Accredited by NBA (CSE, ISE, ECE, ME, CV, AE) & NAAC with A+ Grade, QS I-Gauge Gold rated

www.sjcit.ac.in

Chikkaballapura - 562 101, Karnataka

Estd. 1986

IEEE Student Branch SJC Institute of Technology

IEEE BANGALORE SECTION

Certificate of Appreciation

This Certificate is awarded to Dr. /Mr./Mrs/Ms. PUSHPA MALA S
from Dayananda Sagar University
for having Participated as Session Chair in "3rd IEEE International Conference on Knowledge Engineering and Communication Systems" held at SJC Institute of Technology in Association with IEEE Bangalore Section on April 28 - 29, 2025.

Dr. C Rangaswamy
HOD - ECE
Organizing Chair - ICKECS

Dr. Manjunatha Kumar B H
Dean - Academics & HOD - CSE
Technical Program Chair - ICKECS

Dr. G T Raju
Principal - SJCIT
General Chair - ICKECS

Dr. Navya R
Assistant Professor
Department of ECE

- Dr. Navya R, Assistant Professor, Department of Electronics and Communication Engineering, School of Engineering at Dayananda Sagar University, Bangalore, actively participated in a five-day Faculty Development Programme (FDP) organized by the Department of Electronics and Communication Engineering at East West Institute of Technology, Bangalore. The FDP, titled "Physical Layout with RTL Design & Verification Using Cadence Tool Flow," was conducted from 17th to 21st February 2025.

East West Institute of Technology
(An Autonomous Institute under VTU, Belagavi)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that **Dr. Navya R, Assistant Prof., Dayananda Sagar University, Bangalore** has participated in five days Faculty Development Programme on "PHYSICAL LAYOUT WITH RTL DESIGN &VERIFICATION USING CADENCE TOOL FLOW" held on 17-02-2025 to 21-02-2025, organized by the Department of Electronics and Communication Engineering at East West Institute of Technology, Bangalore.

Dr. S G Hiremath
Prof. and HOD, ECE, EWIT

Mr. Sanjay G S
Field Application Engineer
Entuple Technologies Pvt. Ltd.

Dr. K Channakeshavalu
Principal, EWIT

- Dr. Navya R, Assistant Professor in the Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, has been awarded a Reviewer Certificate by Springer Nature in recognition of her valuable contribution as a peer reviewer. She reviewed a manuscript for the reputed journal Nanotechnology for Environmental Engineering in 2025.

- Dr. R. Navya, Assistant Professor, Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, has been recognized by Springer Nature for her contribution as a peer reviewer for the prestigious Journal of Nanoparticle Research. On 21 May 2025, Ms. Navya was awarded a Reviewer Certificate in appreciation of her expert evaluation of a manuscript submitted to the journal.

SCHOOL OF
ENGINEERING

STUDENT ACHIEVEMENTS

- Mr. Ankit Singh (ENG21CT0004), Mr. Aman (ENG21CT0003), Mr. Khan Samin (ENG21CT0013), Mr. Ashraf (ENG21CT0025), Prof. Junaid, Assistant Professor and Dr. Sudha, Associate Professor published a research article titled “Cloud-Based Blood Banking with Real-Time Donor Tracking Using Machine Learning” in International Conference on Intelligent Systems and Digital Transformation 2025 (ICISD'25), SRM Institute of Science and Technology Vadapalani Campus, Chennai, Tamil Nadu, 5th - 6th May 2025.


SRM
INTERNATIONAL CONFERENCE ON
INTELLIGENT SYSTEMS AND DIGITAL TRANSFORMATION
CERTIFICATE OF PARTICIPATION
Ankit Singh


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INTELLIGENT SYSTEMS AND DIGITAL TRANSFORMATION
CERTIFICATE OF PARTICIPATION
Khan Samim Masud


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CERTIFICATE OF PARTICIPATION
Md Mozammil Ashraf


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CERTIFICATE OF PARTICIPATION
Aman Raj


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INTELLIGENT SYSTEMS AND DIGITAL TRANSFORMATION
CERTIFICATE OF PARTICIPATION
Dr. D Sudha


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INTELLIGENT SYSTEMS AND DIGITAL TRANSFORMATION
CERTIFICATE OF PARTICIPATION
Junaid Mundichipparakkal

- Sayam Adesh Runwal (ENG21AM0111), Tarus Dixit (ENG22AM3010), Varun Kuttappa (ENG22AM3014), Mohammed Zufishan (ENG21AM0074), 8th Semester students, Department of CSE(AI&ML) has received the certificate for presenting a paper titled INTELLIGENT VIDEO SURVEILLANCE SYSTEM: AI-Powered Real-Time Monitoring and Threat Detection at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.

- S Shreyas - ENG21AM0103, Prajwal - ENG21AM0087, U Sagar - ENG21AM0104, Aneesh Bharani P Mittadhar - ENG21AM0009, 8th Semester students, Department of CSE(AI&ML) has received the certificate for presenting a paper titled A Data-Driven Digital Twin Approach for Predicting State of Charge and Health in Lithium-Ion Batteries Using Attention-based RNN and DBNN at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.

- Karanam Venkata Sai Sudheendra Kumar - ENG22AM0105, K M N S Silesh - ENG22AM0100, Gaddam Deveswar Reddy - ENG22AM0090, Nallamalli Venkata Kushal - ENG22AM0116, 6th Semester students, Department of CSE(AI&ML) has received the certificate for presenting a paper titled Integrating IoT and Random Forest Classifier for Crop Recommendation and Cultivation: Real-Time Analysis of Nitrogen, Phosphorus, Potassium, and pH in Soil at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.

- Ajay Viswanagaraj - ENG22AM0140, Trijal Ranganathan - ENG22AM0167, Amish Murali Rao - ENG22AM0074, 6th Semester students, Department of CSE(AI&ML) has received the certificate for presenting a paper titled AI-Driven Precision Diagnosis through Enhancing Healthcare Efficiency with Ensemble Machine Learning Models at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.

- Ajay Viswanagaraj - ENG22AM0140, Trijal Ranganathan - ENG22AM0167, Amish Murali Rao - ENG22AM0074, 6th Semester students, Department of CSE(AI&ML) has received the Best paper award certificate for presenting a paper titled AI-Driven Precision Diagnosis through Enhancing Healthcare Efficiency with Ensemble Machine Learning Models at the Fourth International Conference on Deep Sciences for Computing and Communications (IconDeepCOM-2025) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu, India in association with Universiti Putra Malaysia, Serdang, Malaysia on April 29th & 30th, 2025.


SRM

SRM Institute of Science and Technology

Kattankulathur, Chennai-603203

College of Engineering and Technology, School of Computing,

Department of Computational Intelligence in association with Universiti Putra Malaysia

4th International Conference on

Deep sciences for computiung and communications - IconDeepCom - 2025

April 29th & 30th, 2025

BEST PAPER AWARD

Dr. Shamala Subramaniam, Program Chair- IconDeepCom 2025, Professor, Universiti Putra Malaysia

Dr. Revathi Venkataraman, Professor & Chairperson, School of Computing - SRMIST

Dr. G. Maragatham, Convenor - IconDeepCom 2025, Professor, CINTEL, SRMIST

Dr. R. Annie Uthra, Program Chair- IconDeepCom, Professor & Head – CINTEL, SRMIST

- Hena Basheer (ENG22AM0098), Sachin Prakash Kurup (ENG22AM0126), 6th Semester students, Department of CSE(AI&ML) has presented paper entitled Multiple Sclerosis Diseases Detection using Machine Learning approaches for Medical Imaging in 2025 International Conference on Advancement in Communication & Computing in Technology (INOACC), jointly organised by Departments of CSE, ISE, ECE, CSE (AI & ML), CSE (DS) at Sai Vidya Institute of Technology, Bengaluru, India held during 4 t h – 6th April, 2025.


SAI VIDYA INSTITUTE OF TECHNOLOGY

IEEE IEEE

International Conference on Advancement in Communication & Computing in Technology (INOACC-2025)

Certificate

This is to certify that Dr./Prof./Mr./Ms. Hena Basheer has presented paper entitled Multiple Sclerosis Diseases Detection using Machine Learning approaches for Medical Imaging in 2025 International Conference on Advancement in Communication & Computing in Technology (INOACC), jointly organised by Departments of CSE, ISE, ECE, CSE (AI & ML), CSE (DS) at Sai Vidya Institute of Technology, Bengaluru, India held during 4th – 6th April, 2025.

Dr. Shantakumar B Patil, Secretary and Outreach Chair

DR. M S Ganesha Prasad, General Chair


SAI VIDYA INSTITUTE OF TECHNOLOGY

IEEE IEEE

International Conference on Advancement in Communication & Computing in Technology (INOACC-2025)

Certificate

This is to certify that Dr./Prof./Mr./Ms. Sachin Prakash Kurup has presented paper entitled Multiple Sclerosis Diseases Detection using Machine Learning approaches for Medical Imaging in 2025 International Conference on Advancement in Communication & Computing in Technology (INOACC), jointly organised by Departments of CSE, ISE, ECE, CSE (AI & ML), CSE (DS) at Sai Vidya Institute of Technology, Bengaluru, India held during 4th – 6th April, 2025.

Dr. Shantakumar B Patil, Secretary and Outreach Chair

DR. M S Ganesha Prasad, General Chair

- Gaana Shree S (ENG22AM0014), Ms. Deekshitha M (ENG22AM0010), 6th Semester students, Department of CSE(AI&ML), and Ms. Savita Chinnur (ENG22CS0156), 3rd year, and Ms. Deeksha M (ENG23CS0054), 2nd Year, Department of CSE has received the prestigious IEEE WIE scholarship and a grant of 50,000 rupees.

- K Vamsi Krishna (ENG22AM102), Kommuri Venkata Sai Abinay (ENG22AM108), Lekkala Harsha Vardhan Reddy (ENG22AM111) of 6th Semester students has received the certificate for presenting the paper titled “Bird Species Recognition using YOLOv8: A Deep Learning Approach for Habitat Conservation and Preservation” in the 5th International Conference on Computer Vision and Robotics (CVR 2025) held at National Institute of Technology Goa during April 25 – 26, 2025.

- On 15/5/2025, Mr. Charan Raj R USN: ENG23AS0002 from IV semester Department of Aerospace Engineering at DSU actively participated in the Interdisciplinary symposium on AI in Neuroscience organised by the Department of Computer Science with CDSIMER.

- A group of students from the Department of Aerospace Engineering at Dayananda Sagar University participated in a hands-on workshop titled “Digital Twin for Model Rocketry & CANSAT,” held from 13th to 16th May 2025 at Dassault Systèmes, Pramuk Office, Bengaluru. The workshop provided practical training in 3D modelling, aerodynamic and structural simulations, and antenna placement analysis for CANSAT systems. It complemented their involvement in the ongoing INSPACE–ISRO competition, bridging theoretical knowledge with real-world applications. Participating students included Raghav (ENG21AS0016), Yashas (ENG21AS0051), Amshu (ENG21AS0008), Qasim (ENG22AS0039), Rahul (ENG22AS0027), Barath (ENG22AS0025), Krish (ENG22AS0030), Jaiman (ENG22AS0024), Srilaxmi (ENG22AS0040), Kyathi (ENG22AS0030), and Pramath (ENG22EC0091). Faculty members Dr. Prasanthakumar H.G. and Prof. Sripad Kulkarni S. also participated, reflecting strong departmental support for experiential learning.

- Mr. Levin Alexy Kuriakose (ENG21AS0020) final year student at the Department of Aerospace Engineering, completed a course on the “Rocket Propulsion and Spacecraft Dynamics course by Kodacy, in collaboration with ISRO.

- Ms. Samrdhe(ENG22CY0022) from the 6th semester of cyber security along with students from CSE, secured the Runners-Up position at Sentinel Hack 5.0, a prestigious 24-hour National Level Hackathon hosted by KSIT College, Bengaluru. The event witnessed participation from over 200+ talented students across the country, making the achievement even more remarkable. The hackathon commenced at 10:00 AM on 28th April 2025 and concluded with the valedictory ceremony at 2:30 PM on 29th April 2025. Our team selected the highly innovative and futuristic domain of Blockchain and Web3 for their project, showcasing their technical acumen and forward-thinking approach. As a recognition of their excellence, the winning team brought home a cash prize of ₹15,000.

- Mr. Raghav Srinivas Gollapinni(ENG23CY0078) has successfully completed a Student Development Program (SDP) on Cyber Security (On-Premises Hacking) organized by the E&ICT Academy, IIT Kanpur, a joint initiative of the Ministry of Electronics and Information Technology (MeitY) and IIT Kanpur. The program was conducted from 1st March to 6th March 2025, offering intensive hands-on training and expert-led sessions on advanced topics in cybersecurity, with a special focus on ethical hacking and system security in on-premises environments.

MeitY

E & ICT Academy, IIT Kanpur

(A Joint initiative of MeitY & IIT Kanpur)

Certificate

This is to certify that

Dr. / Mr. / Ms. **Raghav Srinivas Gollapinni** of

Dayananda Sagar University

has completed the **Student Development Program** on

Cyber Security (On Premises Hacking)

from 01-03-2025 to 06-03-2025

Date of Issue: 03-04-2025

Prof B. V. Phani

Chief Investigator, E&ICT Academy, IIT Kanpur

- Mr. Manav Rathod (ENG23CY0025) has successfully earned the INE Certified Cloud Associate (ICCA) certification, awarded by INE, a globally recognized leader in networking and cloud training. This certification, issued on May 2, 2025, validates his foundational expertise in cloud technologies, infrastructure, and services—an essential milestone in the journey toward advanced roles in the ever-evolving cloud computing landscape. Certification ID: 141824813

- Mr. Kushal (ENG23CY0022) has successfully qualified in the Final Round of EUREAKATHON 2025 - “Unleash Ideas & Ignite Innovation”, hosted by the CST Department, School of Engineering, Dayananda Sagar University, on 29th April 2025.

- Mr. Prateep P (ENG23CY0027) has successfully satisfied the requirements for “CyberSecurity Fundamentals” in recognition of the commitment to achieve professional excellence by IBM-SkillsBuild on May 10, 2025.

- Mr. Sudarshan T. K. (ENG22CY0042), Ms. Ashwini Jadhav (ENG22CY0005) participated in HackSpark 2025, an intra-college hackathon organized by Sri Venkateshwara College of Engineering, Bengaluru, held on Tuesday, 13th May 2025, from 8:00 AM to 5:00 PM. The event witnessed the participation of over 50 students, all showcasing their technical skills and innovative thinking across various themes. Our team chose to work under the Artificial Intelligence and Machine Learning (AI/ML) category and demonstrated exemplary teamwork and problem-solving throughout the event. After a day filled with intensive coding, collaboration, and innovation, our team successfully secured the Third Place in the competition.

- Mr. Vignesh S (ENG19CS0360) student of 2023 graduated batch and Dr. Renukadevi M N, Assistant Professor, Department of CSEpublished a paper in IEEE Xplore with the paper title “AttUNet: Enhancing ResUNet with Attention Mechanism for Accurate Brain Tumor Segmentation” which was presented in the IEEE Conference 2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI) during 9th May 2025.

AttUNet : Enhancing ResUNet with Attention Mechanism for Accurate Brain Tumor Segmentation

- Mr. Veeresha R (ENG22CS204), 6th Semester, Department of CSE, has successfully completed 12 weeks of NPTEL Online Certification courses on “Machine Learning for Engineering and Science Applications” with 62% and “Deep Learning” with 54% during January to April 2025.

NPTEL ONLINE CERTIFICATION

Deep Learning

with a consolidated score of 56 %

Online Assignments	Proctored Exam

Elite

NPTEL ONLINE CERTIFICATION

Machine Learning for Engineering and science applications

with a consolidated score of 62 %

Online Assignments	Proctored Exam

- Ms. Talupula Jahnavi (ENG22CS0478), 6th semester, Dr. Renuka Devi M N, Assistant Professor, and Mr Punith Amilineni (ENG22CS0399), 6th Semester, Department of CSE has successfully Published a research article with the title “Analysis of Fruits and Vegetable conditions using Image Processing” in Springer series “Advances in Intelligent Systems Research”, which was presented in the International Conference on Advancements in Computing technologies and Artificial Intelligence (Computatia-2025) organized by Vivekananda Global, University, Jaipur during May 2025.

Analysis of Fruits and Vegetable Conditions Using Image Processing

Abstract

1. Introduction

2. Flow Diagram

- Mr. Dhiren CR (ENG21CS0115), Mr. Bhuvan J (ENG21CS0079), Mr. Abhiram DV (ENG21CS0101) and Mr. Ayush Sharma (ENG21CS0495) 8th semester Students Department of CSE under the guidance of Prof. Naitik ST, Assistant Professor Won 1st place for the project titled “Women Safety in Emerging Situation Using SOS Alerts With Integration of Biometrics and IoT” in the ProjectExpo 2K25 organized by the Department of Computer Science and Engineering, SOE, DSU on 24th May 2024.

- Ms. H S Sinchana (ENG21CS0143), Ms. K Vaishnavi (ENG21CS0173) and Ms. Shambhavi Hegde (ENG21CS0371) 8th semester Students Department of CSE under the guidance of Dr.George Fernandez I, Associate Professor Won First Runner-up place for the project titled “Smart Wardrobe - MR driven virtual try on” in the ProjectExpo 2K25 organized by the Department of Computer Science and Engineering, SOE, DSU on 24th May 2024.

- Mr. Manoj S (ENG21CS0222), Mr. Kiran Gangoor (ENG21CS0189), Ms. Harshitha S (ENG21CS0154) and Ms. Kavana N (ENG21CS0184) 8th semester Students Department of CSE under the guidance of Prof . Pooja Shree H R, Assistant Professor Won Second Runner-up place for the project titled “High resolution 3D of terrain and infrastructure, Road travel conditions in Disaster struck areas” in the ProjectExpo 2K25 organized by the Department of Computer Science and Engineering, SOE, DSU on 24th May 2024.

- Mr. D A Ajay (ENG24CS0052) 2nd semester, Department of CSE, and the team of other branch students participated and won 2nd place with a cash prize of Rs 500 in the Unlock.Ed Quiz conducted on 20th May 2025 as part of the National Technology Day celebrations by the FSD Club department of CSE, SOE, DSU, Harohalli.

- Shashi Kumar (ENG23DS0034) & Aditya (ENG23DS0001) team has been successfully shortlisted for the next round of India's largest drone innovation challenge – NIDAR 2025 on 22nd May 2025.

NIDAR 2025 | Shortlisting Announcement

NIDAR

Congratulations!
YOUR TEAM IS SHORTLISTED!

Dear Roxx Air Vehicles,

We are thrilled to inform you that **your team has been successfully shortlisted** for the next round of India's largest drone innovation challenge – NIDAR 2025.

All your submitted details and registration payment have been verified. Congratulations on clearing this important milestone!

This marks the beginning of your journey to demonstrate innovation and technical excellence in drone applications under the theme of **Disaster Management**. We look forward to witnessing your contributions in the upcoming phases of the competition.

Team Details:

Team Name: Roxx Air Vehicles

Allotted Team ID: N250671

Problem Statement: Disaster Management

- Aditya S (ENG23DS0001) secured the Second Runner-Up position in the Eurekathon 2025 competition, organized by the Department of Computer Science and Technology, and was awarded a cash prize of ₹6,000 on 29th April 2025.

- Kovarthana K ENG22DS0032 & Pavan Kumar G ENG22DS0040 participated in Hackathon 26.1-AI/ML(Gen AI) held on 12th April 2025.

- Shashi Kumar C ENG23DS0034 internship offer from Safear Defence for Robotics Software Development, which involves working with MicroPython packages. The internship offers a base stipend of ₹5,000 and has the potential to convert into a full-time job after two months.

Safear India Yesterday
to john.safeardefense, debas...

Dear Applicant,

Congratulations! You've been shortlisted based on your academic year and your proficiency in Python and microcontrollers—we're excited about the possibility of working with you!

Here are a few important details about the internship:

1. **Remote-First**: This is a fully remote internship. All you need is your preferred Python IDE. Occasionally, we host informal brunch meetings in Bengaluru—if you're around, we'd love for you to join us.
2. **Flexible Weekends**: Saturdays and Sundays are completely off—no meetings, no calls.
3. **Your Contribution**: Each month, you'll be expected to submit **10 robot codes**. These will include a mix of simple, moderate, and 1–2 challenging robot tasks.
4. **Code Validation**: A dedicated tester will run your code on an actual robot. Once the code runs successfully—either as submitted or with minimal required changes—it will be counted as **one completed robot**.
5. **Duration & Stipend**: The internship lasts **2 months**. You'll receive a **stipend of ₹5,000 per month**, disbursed together at the **end of the internship**, along with an official certificate. (We'll also sign a short agreement with you to ensure clarity and mutual trust.)

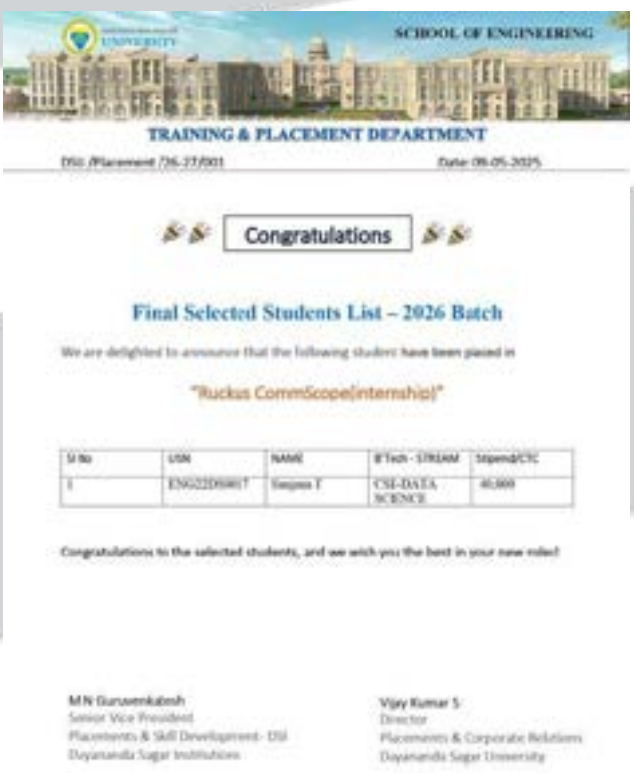
If this sounds exciting to you, we'd love to have a quick final conversation over a call.

Please respond to this email with your acceptance or rejection by the end of day tomorrow (May 3rd, 2025). If accepted, we'll contact you shortly to schedule the call.

Looking forward to your reply!

Warm regards,
Team Safear

- Sanjana T (ENG22DS0017) for being selected for the Ruckus CommScope (Internship) with a stipend of 40,000 on 09th May 2025.



SCHOOL OF ENGINEERING

TRAINING & PLACEMENT DEPARTMENT

Congratulations

Final Selected Students List – 2026 Batch

"Ruckus CommScope(internship)"

Sl No	USN	NAME	BTech - STREAM	Stipend/CTC
1	ENG22DS0017	Sanjana T	CSE-DATA SCIENCE	40,000

Congratulations to the selected students, and we wish you the best in your new roles!

M N Guruvenkatesh
Senior Vice President
Placements & Skill Development- DSI
Dayananda Sagar Institutions

Vijay Kumar S
Director
Placements & Corporate Relations
Dayananda Sagar University

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Department of CST, DSU.

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Department of CST, DSU.

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Department of CST, DSU.

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Department of CST, DSU.

Srushti S
Department of CST, DSU.

Nishant Kumar Dubey
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Rishav Aditya
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Siddharth Kumar
Department of CST, DSU.

SCHOOL OF ENGINEERING

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