Volume-2 Issue-12

Dayananda Sagar
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SCHOOL OF ENGINEERING

SOE-BULLETIN

The Official Newsletter of **School of Engineering**

DECEMBER 2024

www.dsu.edu.in

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

SCHOOL OF
ENGINEERING

INTERNATIONAL ACTIVITIES

Lecture series on Artificial Intelligence and the Future of Human-Computer Interaction

The Department of Computer Science and Engineering and the Department of International Affairs jointly organized an enlightening lecture series titled “Artificial Intelligence and the Future of Human-Computer Interaction”. The event, held under the Scholar in Residence Programme, featured Dr. Kenneth Arthur Rouse from LeTourneau University, USA, from December 9 to 14, 2024. Dr. Rouse commenced his stay with a warm meet-and-greet session, followed by a keen observation of our lecture halls and interactions with faculty. Over the course of the week, he delivered engaging lectures on diverse topics such as Red-Black Trees, Artificial Intelligence (AI), and Human-Computer Interaction (HCI), tailored to meet the needs of different academic levels.

The session on Red Black Trees was particularly well-received by students in the 3rd semester, where Dr. Rouse provided an in-depth exploration of this fundamental data structure. For senior students in the 5th semester, he conducted interactive sessions on AI and HCI, offering insights into the future of these transformative fields.

In addition, Dr. Rouse hosted a special guest lecture exclusively for faculty and advanced students, where he discussed cutting-edge developments in HCI and its interdisciplinary applications. His presentations sparked meaningful discussions and inspired future research collaborations.


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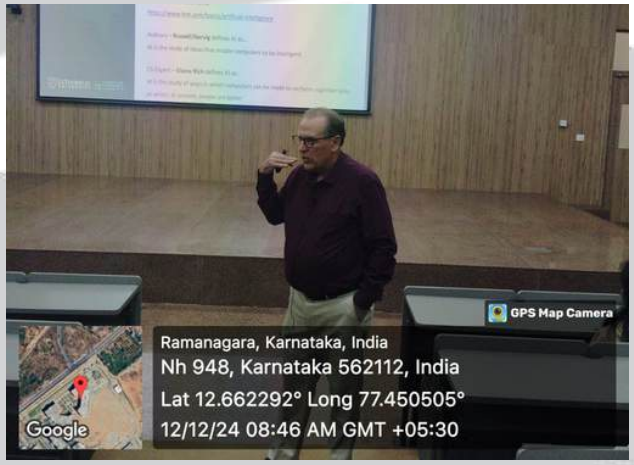
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SCHOOL OF
ENGINEERING

WORKSHOPS / SKILL DEVELOPMENT PROGRAMS

Workshop on “Connect Next - 3D Experience”

The "Connect Next - 3D Experience Workshop" was organized by Dassault Systems from December 19th to 21st, 2023, at their PRAMUKH office. This workshop aimed to provide students with an exceptional opportunity to enhance their skills and gain hands-on experience with cutting-edge 3D design and engineering tools. The core topics focused on the functioning, mechanical design, and avionics of model rockets, sounding rockets, high-powered rockets, and CANSAT systems.
The workshop was conducted over three days, with each day focusing on specific aspects of rocket design and technology: The workshop began with a session on design thinking, providing participants with a structured approach to innovative problem-solving. This was followed by an introduction to the functioning and principles of rockets, laying a strong foundation for the subsequent sessions. Topics covered on the second day included: Rocket Mechanical Design: Understanding the structural design of rockets. Rocket Motor: Insights into propulsion systems and motor design. Avionics: Detailed exploration of avionics systems for both rockets and CANSAT systems.

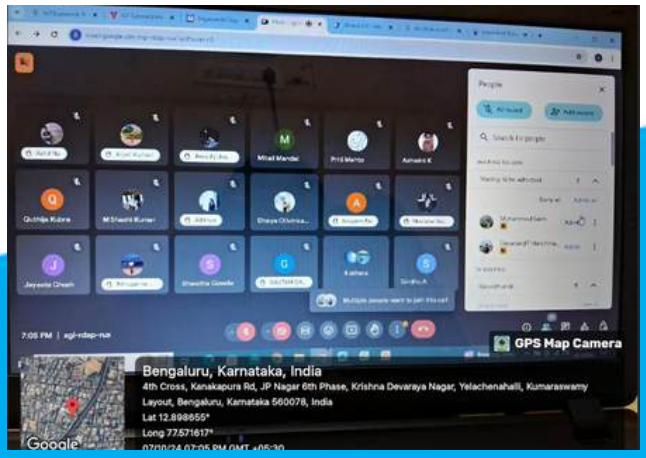
Thirty Hours Value Added Course on "AI and ML in Nursing & Healthcare”

The rapid advancements in Artificial Intelligence (AI) and Machine Learning (ML) are transforming industries, with healthcare being one of the most impacted domains. The integration of AI and ML in nursing and healthcare has opened up avenues for improved diagnostics, personalized treatment, operational efficiency, and patient engagement. Recognizing this potential, a 30-hour hands-on training program was conducted from 26th October 2024 to 27th November 2024, from 6:00 PM to 7:00 PM in Hybrid Mode.

The program, led by Dr. Shaila SG and Prof. Sindhu A from the Department of CSE (Data Science), with coordination by Dr. Jamuna P, School of Nursing aimed to equip participants with foundational and advanced knowledge in AI and ML applications tailored for nursing and healthcare. This course provided participants with insights into machine learning models, neural networks, data analytics, and the Internet of Things (IoT), along with practical examples and case studies to emphasize the impact of AI in healthcare. The training program offered a robust platform to explore AI and ML in the context of nursing and healthcare, emphasizing practical implementation and future trends. It empowered participants with technical expertise and industry-relevant skills, preparing them for innovations in healthcare technology.

Agenda

Unit No.	Course Content (Topics and Subtopics)	Hours
1	Introduction to AI and ML: Importance and Applications in Nursing & Healthcare	3
2	Types of ML & Classification: Decision Tree, Bayesian Classifier, Regression	2
3	Neural Networks: Learning Models, Deep Neural Networks, CNNs, RNNs, NLP, Computer Vision	4
4	Internet of Things (IoT): Introduction, Process Flow, Tools, Use Cases, Remote Patient Monitoring	3
5	Data Representation: Introduction, Data Frames, Standardization, Handling Noise/Missing Values, Transformation	4
6	Data Analytics: Tools like R, Python, Statistical and Visualization Tools	4
7	Healthcare Data Analysis: Sources, Pre-processing, Handling, Analysis-ready Datasets	5
8	Healthcare Datasets: Examples and Case Studies	3
9	Case Studies and Future Trends in AI Healthcare	2



"Mastering Machine Learning: A Comprehensive Hands-On Bootcamp"

The Department of Computer Science and Technology recently organized a highly successful event titled "Mastering Machine Learning: A Comprehensive Hands-On Bootcamp" from 12th to 16th December 2024 for 5th-semester students. Led by Mr. Dinesh Yuvaraj, an AI Developer renowned for his expertise in fine-tuning language models and developing AI chatbots, the boot camp provided participants with a robust foundation in machine learning and artificial intelligence. The program blended theoretical knowledge with practical applications, covering topics such as building language models, chatbots, neural networks, boosting algorithms, and the Random Forest method. The hands-on training sessions allowed students to implement these techniques and understand their real-world applications. The boot camp concluded with participants feeling confident and equipped with the skills to apply machine learning in practical scenarios, laying a strong foundation for further exploration or career advancement in AI and data science.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SCHOOL OF
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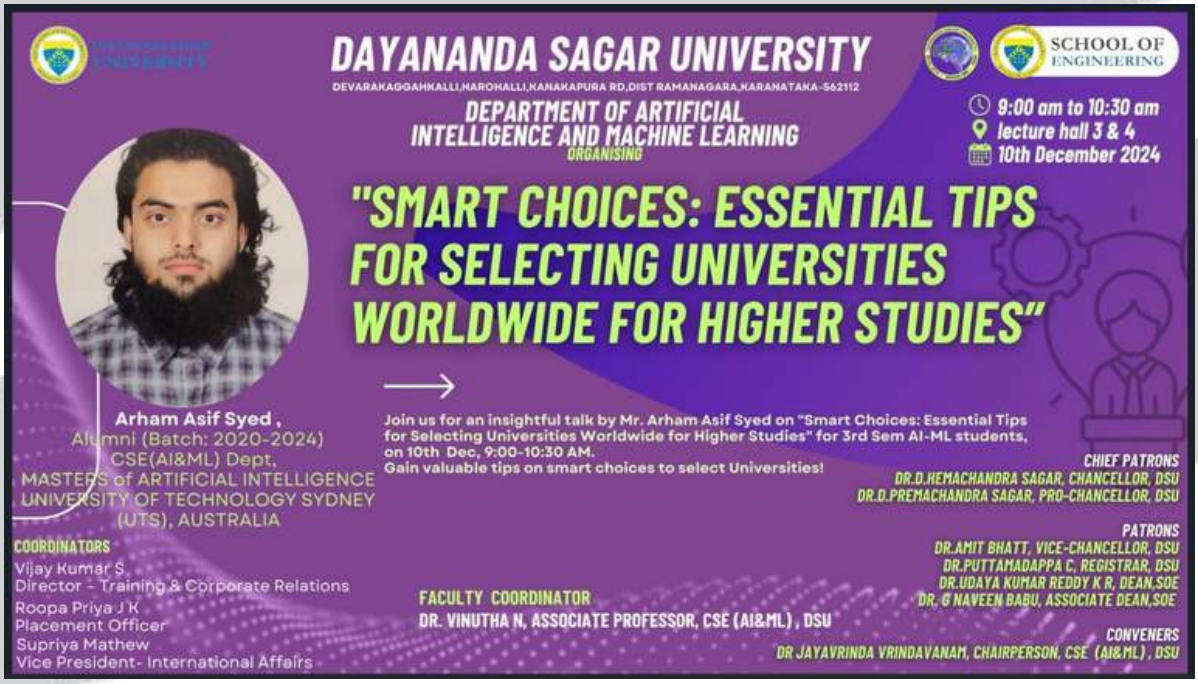
WEBINARS / SEMINARS / TECHNICAL TALKS

Expert Talk on “Computational Fluid Dynamics (CFD) Approach for Convection Heat Transfer Problems”

An invited talk on “Computational Fluid Dynamics (CFD) Approach for Convection Heat Transfer Problems” was delivered by Dr. Ningegowda B. M., Associate Professor in the Department of Mechanical Engineering at Dayananda Sagar College of Engineering. Dr. Ningegowda commenced the session with an introduction to the fundamentals of CFD, discussing its scope, importance, and applications in modern engineering challenges. The talk was closely aligned with the CFD syllabus for the participating semesters, covering essential topics such as numerical methods, the Finite Difference Method, and solving Navier-Stokes equations. He also explained practical approaches to conduction and convection heat transfer problems, ensuring students gained insights into both theoretical and computational aspects of CFD. The session was highly engaging and appreciated by students and faculty alike. Dr. Nugegoda’s ability to simplify complex concepts and relate them to real-world applications made the talk informative and impactful.

Expert-talk on “Smart Choices: Essential Tips for Selecting Universities Worldwide for Higher Studies”

On 10th December 2024, the Department of Computer Science & Engineering (AI & ML) conducted an expert talk on “Smart Choices: Essential Tips for Selecting Universities Worldwide for Higher Studies”, for 3rd semester students. Arham Asif Syed, an alumnus (2020-2024), Dept. of CSE(AI&ML) of Dayananda Sagar University and a current Master's student in Artificial Intelligence at the University of Technology Sydney, Australia, shares essential tips for selecting universities for higher studies. When choosing a study destination, the USA and Canada offer unique advantages. The USA is renowned for its world-class education, featuring top universities like MIT and Harvard, advanced curriculums, cutting-edge research, and excellent job prospects in industries like technology and healthcare. Scholarships and financial aid make it accessible for talented students. Canada, on the other hand, offers high-quality, affordable education at institutions like the University of Toronto and McGill. It provides clear pathways to post-graduation work and permanent residence (PR), affordable living costs, and universal healthcare. Both countries offer exceptional opportunities, but preferences depend on career goals and budget.

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Expert Talk on “Effective Strategies to Excel in Gate Exam for Higher Education”

On 12th December 2024, the Department of Computer Science & Engineering (AI & ML) conducted an expert talk on “Smart Choices: Essential Tips for Selecting Universities Worldwide for Higher Studies”, for 3rd semester students. Mr. Pramod Koushik T R, an alumnus (2020-2024) of CSE (AIML) and a Master's student in Data Science at SVNIT Surat, shared strategies to excel in the GATE exam and insights on career paths post-BTech. He highlighted opportunities in PSUs (e.g., Maharatna, Navratna), private sectors, and higher education options like MBA, MTech, or MS at reputed institutes. For GATE, he recommended focusing on CS and Mathematics (85 marks) and Aptitude (15 marks), using resources like textbooks, mock tests, and materials from experts. He emphasized the benefits of these paths, including financial gains, learning, diverse exposure, and the fulfillment of career aspirations.

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Expert Talk on “AI solutions for healthcare 4.0”

On 13th December 2024, the Department of Computer Science & Engineering (AI & ML) conducted an expert talk on “AI solutions for healthcare 4.0” for 5th Semester AI&ML Students. Dr. Sulaxan Shankar Jadhav, Adjunct Faculty at Symbiosis School of Economics, explores the role of AI in transforming Healthcare 4.0. He highlights AI-driven diagnostics, predictive analytics, personalized medicine, and real-time health monitoring through smart wearables. By integrating AI with IoT, big data, and robotics, healthcare ecosystems can become more efficient and intelligent. Dr. Jadhav also addresses key challenges, including data privacy, ethical concerns, and regulatory frameworks, emphasizing the need for responsible AI adoption to improve patient outcomes and healthcare efficiency.

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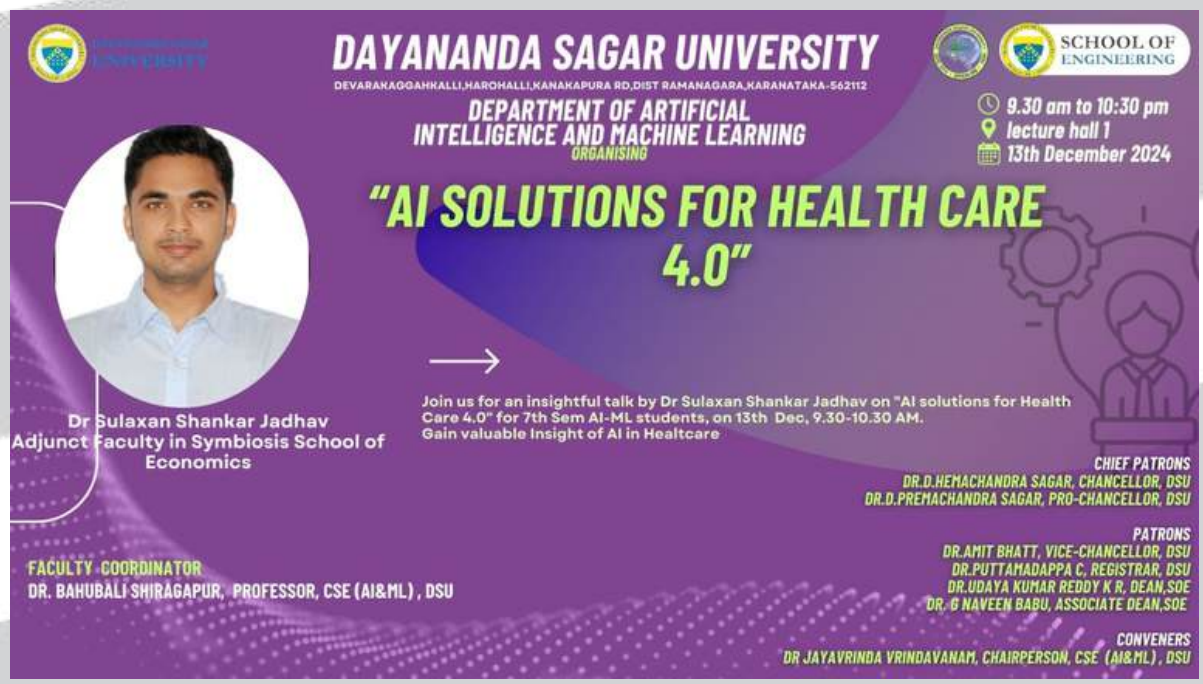


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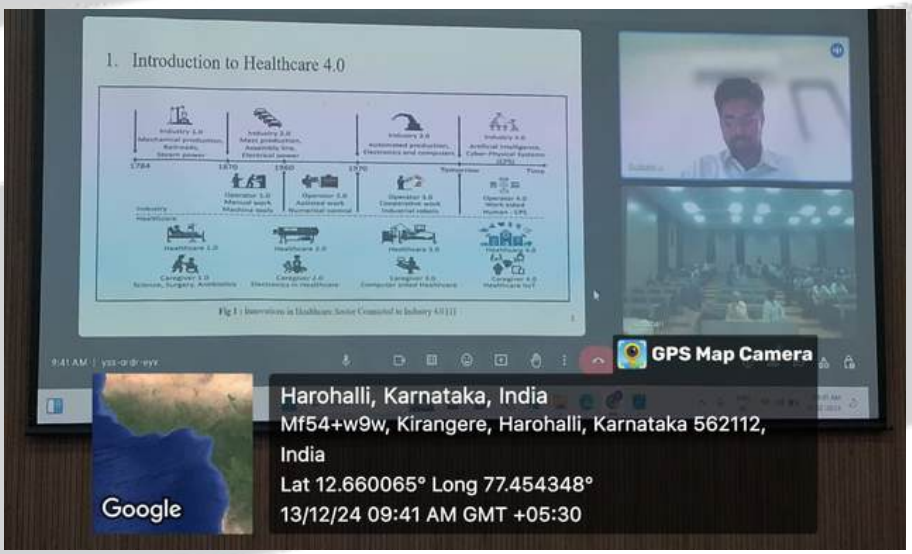
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"AI SOLUTIONS FOR HEALTH CARE 4.0"
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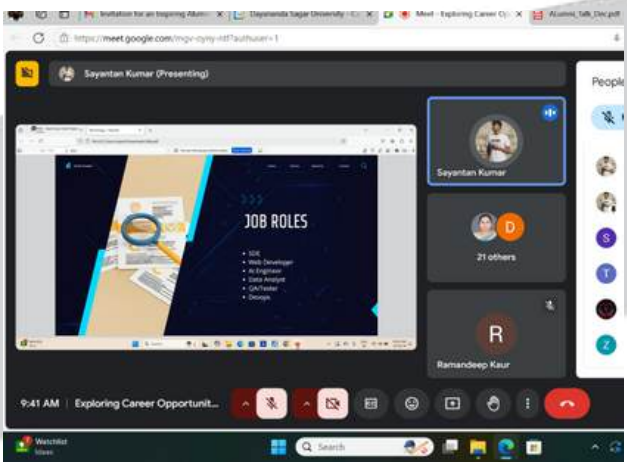
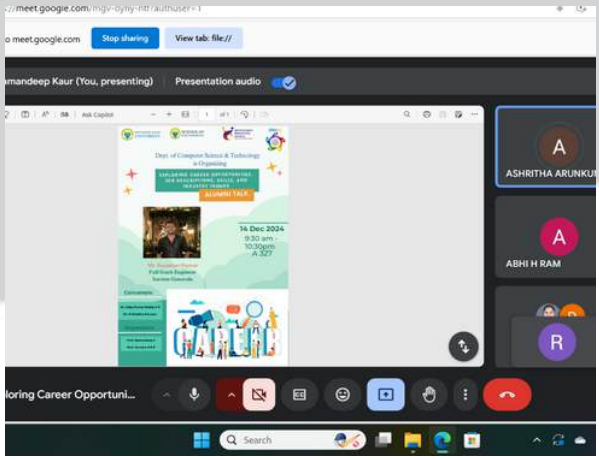
“Alumni Talk on Exploring Career Opportunities: Job Descriptions, Skills, and Industry Trends”

The Department of Computer Science & Technology are delighted to share the success of our recent alumni talk titled "Exploring Career Opportunities: Job Descriptions, Skills, and Industry Trends." The event, held on 14 December 2024, was a resounding success, providing valuable insights and guidance to our students.





Peer to Peer Learning – “Idea Pitch”

Peer learning which is a powerful method for mutual growth and development, especially in educational was conducted with 5th Sem students of CST on 13/12/2024 at A325, which focused on leveraging group discussions and collaborative insights to build practical skills. This initiative targets students and young professionals looking to improve their problem-solving abilities, leadership skills, and teamwork through a structured peer-learning environment. Innovative peer-learning initiative, combines the joys of reading with skill enhancement. Through structured discussions and practical activities, participants gained valuable skills and forge meaningful connections. We invite stakeholders to support this initiative and help create a thriving learning community.

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EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES

“Make your own telescope”

The Alatus Aerospace club organized an event titled “Make your own telescope “on 13/12/24 at the Department of Aerospace Engineering at Dayananda Sagar University the students from 1st, 2nd, and 3rd years actively participated and constructed their own telescope the main objective of this activity to build a telescope and to perform the stargazing activity. This activity was initiated by Alatus aerospace club members and the faculty coordinator Prof Sripad and other faculties from the department.

‘Keychain Chronicles’ by The Literary Society

The Literary Society, SOE, organized a competition, ‘Keychain Chronicles,’ on 26-12-2024 on the first floor from 3 pm to 4:30 pm. We received 56 enthusiastic participants throughout all semesters. They were given wooden keychain blanks, charms, and painting supplies and were instructed to draw and compose quotes associated with their paintings. The purpose of painting and creating quotes was to help students express themselves creatively, reduce stress, and enhance their communication abilities. While quotes aid in efficiently communicating vision and principles, whether in speeches or writing, art can highlight creativity, invention, and the transforming potential of unusual thought. Art nurtures creative thinking by presenting new perspectives and ideas and is often used in an open-ended nature that fosters problem-solving and intellectual engagement. Overall, art & quotes are tools for inspiring change, connecting with others, and leaving a lasting impact. Whether used in writing, public speaking, or branding, original quotes hold the power to transform thoughts and actions.

This activity was intentionally chosen to help students cope with exam pressure, and it was a great success.

Industry Connect Session with Oppo

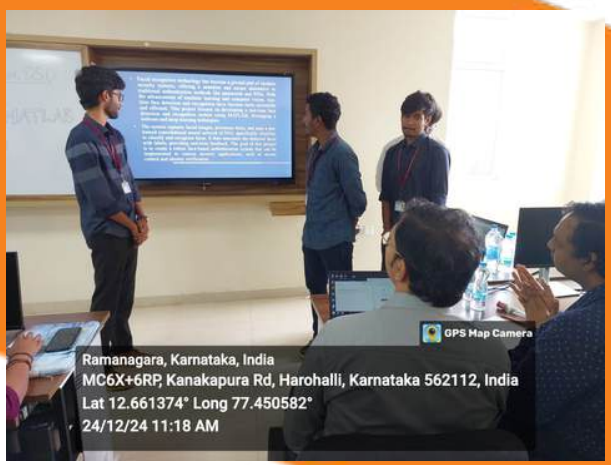
The Generation Green (Gen G) Campaign, an initiative by OPPO India in collaboration with AICTE and managed by 1M1B, was successfully organized on 10th December 2024 The event featured a vibrant cultural segment with a flash mob, skit, and fashion show, followed by activities like a scavenger hunt, ideathon, and face painting. Distinguished guests, including Syed Khaja Mohiddin M.E - Senior Environmental Officer, KSPCB, and Ms. Anuka Kumar - Head of CSR, OPPO India, graced the inauguration. Esteemed speakers, including the Vice Chancellor and Associate Dean - Dr. Naveen Babu, emphasized the importance of sustainability and innovation. Post lunch, the event continued with a roundtable discussion where the dean sir, chairpersons of all departments, and faculty members shared their ideas on sustainability. They engaged in collaborative discussions with Mr. Syed Khaja Mohiddin M.E. and Ms. Anuka Kumar. During the session, an MoU was signed to promote collaboration in research, organize awareness campaigns, and support initiatives for startups. The MoU between Oppo and 1M1B will enhance innovation and startup opportunities for DSU students. Additionally, the Government of Karnataka's commitment to support and fund projects from the School of Engineering will provide valuable resources for growth and research, fostering a thriving entrepreneurial ecosystem at DSU.

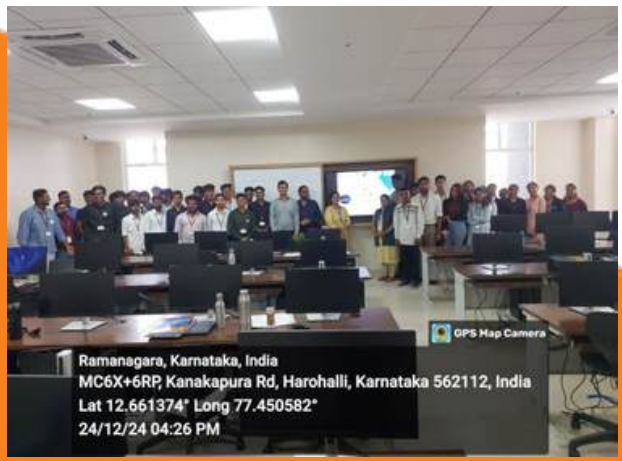
TECHSPARK MATLAB EXPO 2024

The DataScience@DSU Club, the Department of CSE (Data Science) & IEEE student Chapter-Information Theory Society organized TECHSPARK MATLAB EXPO 2024 held on 24th December 2024, from 10:00 AM to 03:00 PM in A410, SOE, DSU organized Dr. Shaila S G, Professor and Chairperson (DS), Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science), and Prof. Monish L, Assistant Professor, Dept. of CSE (Data Science). More than 50+ students have registered and participated in the event.

The resource persons officially inaugurated the MATLAB EXPO at DSU, marking the beginning of the event. The program commenced with a warm welcome to the experts, followed by addresses from the dignitaries, who spoke to the assembled audience. The event concluded with students enthusiastically participating in and enjoying their MATLAB learning experience.

The primary objective is to inspire creativity by showcasing how MATLAB can be used to develop future-ready solutions and enhance productivity in academic and industrial applications.





“Educational Outreach Program”

On 19th December 2024 the Alatus Aerospace Club, under the Department of Aerospace Engineering at DSU, organized an engaging and educational interactive session on health and hygiene for the students of the government school in Kiranagere, Harohalli. The event featured fun activities, including interactive "germ finder" games designed to teach students the importance of hygiene in a playful way, along with hands-on activities to promote better health practices. Additionally, students enjoyed a paper plane-making activity, combining creativity and learning. The session aimed to foster awareness and inspire healthy habits while encouraging curiosity and teamwork among the students.

Grand Launch of the IEEE CEDA Student Branch Chapter at Dayananda Sagar University

The Department of Electronics and Communication Engineering is delighted to announce the successful inauguration of the IEEE Council on Electronic Design Automation (CEDA) Student Branch Chapter at Dayananda Sagar University (DSU). This momentous event marked the beginning of a new journey toward fostering innovation, collaboration, and excellence in the field of Electronic Design Automation (EDA).

The inauguration ceremony witnessed the presence of esteemed dignitaries, including Dr. Parameshachari B D, Dr. Shashidhara K S, Dr. Pushpa Mala S, and Dr. Arun Balodi, who shared their profound knowledge and inspired the audience with insights into emerging trends and opportunities in EDA and related domains.

Under the guidance of Dr. Arun Balodi, Chairperson and Professor, Department of Electronics and Communication Engineering, and the dynamic leadership of Deekshitha R, Chair, the chapter comprises a vibrant team of passionate and talented members ready to make an impactful contribution to the technical community.

The launch event was filled with enthusiasm as students actively engaged in discussions, learned about the chapter's vision, and began exploring opportunities to collaborate and grow. The chapter is committed to promoting academic and professional growth by organizing technical talks, workshops, and competitions to benefit the DSU community.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10:00 AM - 12:00 PM
LECTURE HALL- 2,
SOE-DSU

SCHOOL OF
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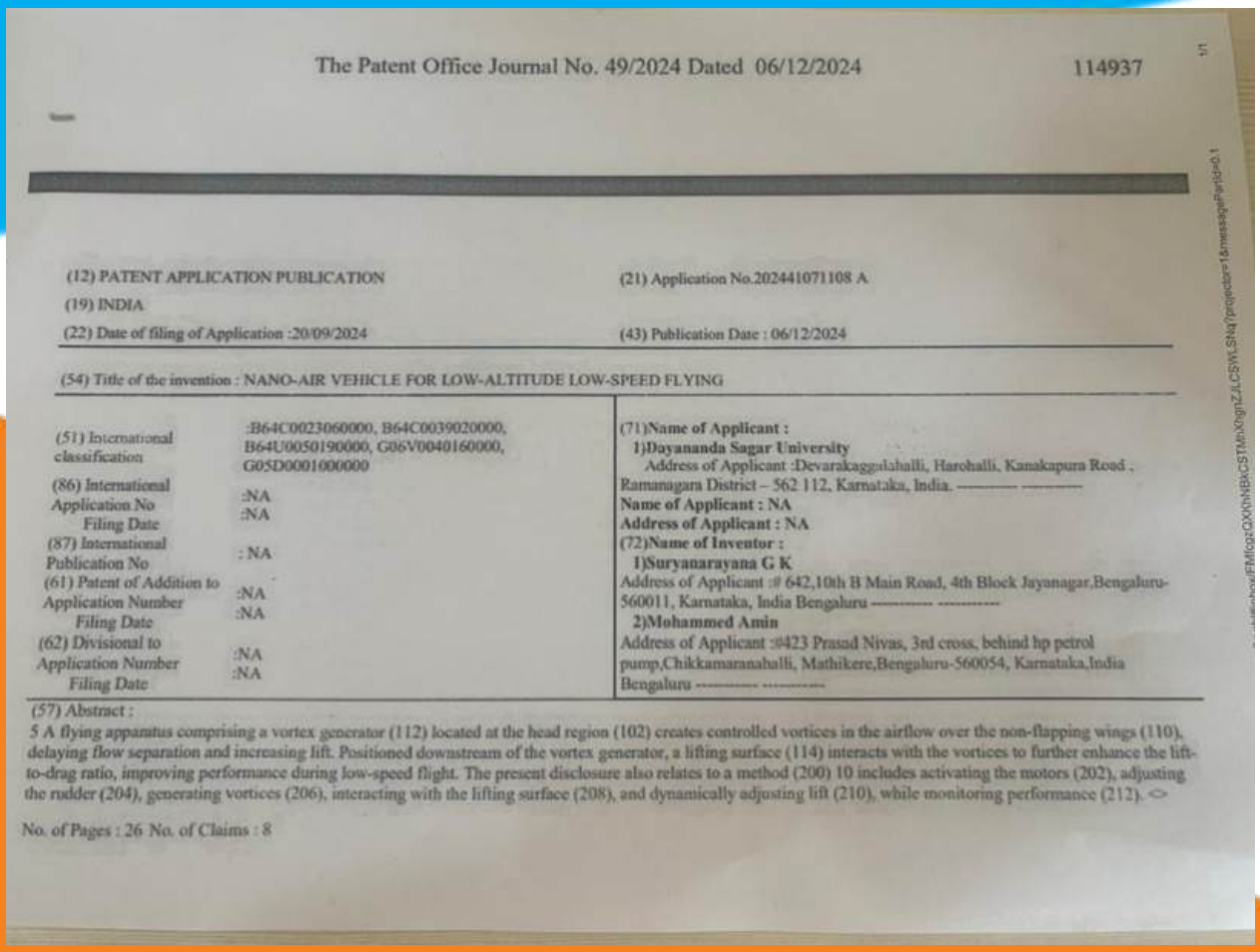
FACULTY ACHIEVEMENTS

Dr. Suryanarayana G.K
Professor
Department of Aerospace Engineering

- Dr. Suryanarayana G.K., Professor in the Department of Aerospace Engineering, and Mr. Mohammed Amin, also from the Department of Aerospace Engineering, have published a patent on a Nano Air Vehicle designed for low-altitude, low-speed flying.



The Patent Office Journal No. 49/2024 Dated 06/12/2024 114937

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/09/2024
(21) Application No.202441071108 A
(43) Publication Date : 06/12/2024

(54) Title of the invention : NANO-AIR VEHICLE FOR LOW-ALTITUDE LOW-SPEED FLYING

(51) International classification	:B64C0023060000, B64C0039020000, B64U0050190000, G06V0040160000, G05D0001000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :Devarakaggalahalli, Harohalli, Kanakapura Road , Ramanagara District – 562 112, Karnataka, India. ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
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2)Mohammed Amin
Address of Applicant :#423 Prasad Nivas, 3rd cross, behind hp petrol pump,Chikkamaranahalli, Mathikere,Bengaluru-560054, Karnataka,India Bengaluru ---------- ----------

(57) Abstract :
5 A flying apparatus comprising a vortex generator (112) located at the head region (102) creates controlled vortices in the airflow over the non-flapping wings (110), delaying flow separation and increasing lift. Positioned downstream of the vortex generator, a lifting surface (114) interacts with the vortices to further enhance the lift-to-drag ratio, improving performance during low-speed flight. The present disclosure also relates to a method (200) 10 includes activating the motors (202), adjusting the rudder (204), generating vortices (206), interacting with the lifting surface (208), and dynamically adjusting lift (210), while monitoring performance (212). <>

No. of Pages : 26 No. of Claims : 8

Dr. Naresh P
Assistant Professor
Department of CSE

- Dr. Naresh P, Assistant Professor, Department of CSE has successfully completed a free online course on “Python Fundamentals for Beginners” in December 2024 provided by Great Learning Academy.

- Dr. Naresh P, Assistant Professor, Department of CSE has successfully Published a Book titled, “Blockchain Essentials: From Cryptocurrencies to Smart Contracts”, as a Co-Author on 2nd December 2024 and the publisher is Amazon Kindle with the ISBN-13, 979-8346928232.

- Dr. Naresh P, Assistant Professor, Department of CSE has successfully presented the paper titled “Self-Optimizing Distributed Cloud Computing with Dynamic Neural Resource Allocation and Fault-Tolerant Multi-Agent Systems” and “Utilizing Machine Learning for the Identification of Chronic Heart Failure (CHF) from Heart Pulsations“ in the 4th IEEE International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS-2024) organized by Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, Erode, Tamil Nadu, India during 12-13 December 2024.

IEEE Computational Intelligence Society

IEEE XPLORE COMPLIANT ISBN 979-8-3315-2963-5

CERTIFICATE OF PRESENTATION

This is to certify that

Dr. P Naresh

has successfully presented the paper entitled

Utilizing Machine Learning for the Identification of Chronic Heart Failure (CHF) from Heart Pulsations

in the

4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS 2024) organised by Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, Erode, Tamil Nadu, India.
12-13, December 2024

Session Chair

Dr. P. Karuppusamy
Conference Chair

Dr. P. Thangavel
Patron

IEEE Computational Intelligence Society

IEEE XPLORE COMPLIANT ISBN 979-8-3315-2963-5

CERTIFICATE OF PRESENTATION

This is to certify that

P Naresh

has successfully presented the paper entitled

Self-Optimizing Distributed Cloud Computing with Dynamic Neural Resource Allocation and Fault-Tolerant Multi-Agent Systems

in the

4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS 2024) organised by Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, Erode, Tamil Nadu, India.
12-13, December 2024

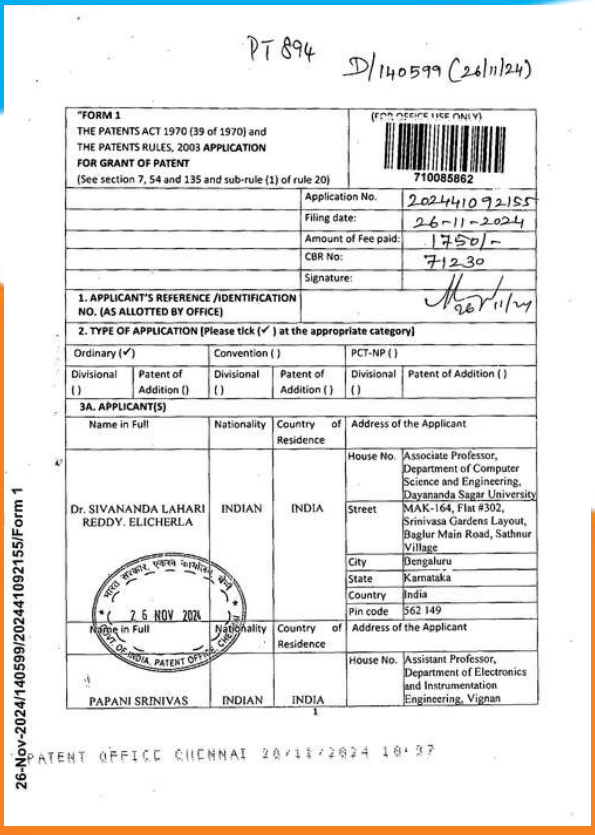
Session Chair

Dr. P. Karuppusamy
Conference Chair

Dr. P. Thangavel
Patron

Dr. Sivananda Reddy L
Associate Professor
Department of CSE

- Dr. Sivananda Reddy L, Associate Professor, Department of CSE successfully published an Indian patent with the title “Wireless body area network for real-time oxygen saturation monitoring in biomedical applications” on 6th November 2024 with Application No.202441092155 A.



PT 894 D/140599 (26/11/24)

"FORM 1
THE PATENTS ACT 1970 (39 of 1970) and
THE PATENTS RULES, 2003 APPLICATION
FOR GRANT OF PATENT
(See section 7, 54 and 135 and sub-rule (1) of rule 20)

(FOR OFFICE USE ONLY) 710085862

Application No.	202441092155
Filing date:	26-11-2024
Amount of Fee paid:	1750/-
CBR No:	71230
Signature:	26/11/24

1. APPLICANT'S REFERENCE /IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

Ordinary (✓)		Convention ( )		PCT-NP ( )	
Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )

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			City	Dengaluru
			State	Karnataka
			Country	India
			Pin code	562 149
Name in Full	Nationality	Country of Residence	Address of the Applicant	
PAPANI SRINIVAS	INDIAN	INDIA	House No.	Assistant Professor, Department of Electronics and Instrumentation Engineering, Vignan

(26 NOV 2024) PATENT OFFICE CHENNAI

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26-Nov-2024/140599/202441092155/Form 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/11/2024
(21) Application No 202441092155 A
(43) Publication Date : 06/12/2024

(54) Title of the invention : WIRELESS BODY AREA NETWORK FOR REAL TIME OXYGEN SATURATION MONITORING IN BIOMEDICAL APPLICATIONS

(71)Name of Applicant :
1)Dr SIVANANDA LAHARI REDDY ELICHERLA
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Dayananda Sagar University, MAK-164, Flat #302, Srinivasa Gardens Layout, Baglur Main Road, Sathnur Village, Bengaluru 562149
2)PAPANI SRINIVAS
3)BHAVANI KINNARA
4)MADHURI GUMMINENI
5)ANARDHAN KOMAROLU
6)P LAKSHMI PRIYA
7)Dr. G. HEMANTH KUMAR YADAV
8)PAGIDIPALLE SHAJAHAN
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr SIVANANDA LAHARI REDDY ELICHERLA
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2)PAPANI SRINIVAS
Address of Applicant :Assistant Professor, Department of Electronics and Instrumentation Engineering, Vignan Institute of Technology and Science, Deshmukhi (V), Pochampally (M), Yadadri Bhuvanagiri District, Telangana 508284
3)BHAVANI KINNARA
Address of Applicant :Assistant Professor, Department of Electronics and Instrumentation Engineering, Vignan Institute of Technology and Science, Deshmukhi (V), Pochampally (M), Yadadri Bhuvanagiri District, Telangana 508284
4)MADHURI GUMMINENI
Address of Applicant :Assistant Professor, Department of Electronics and Instrumentation Engineering, Vignan Institute of Technology and Science, Deshmukhi (V), Pochampally (M), Yadadri Bhuvanagiri District, Telangana 508284
5)ANARDHAN KOMAROLU
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Nunevatla X Roads, Nandyal, Andhra Pradesh-518501
6)P LAKSHMI PRIYA
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Vidya Jyothi Institute of Technology, Aziznagar Gate, Chilkur Balaji Road, Hanuyar Nagar Road, Hyderabad, Telangana 500075
7)Dr. G. HEMANTH KUMAR YADAV
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Srinivasa Ramanujan Institute of Technology, Ramanjapuram Village, BKS Mandal, Anantapur, Andhra Pradesh-515701
8)PAGIDIPALLE SHAJAHAN
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Srinivasa Ramanujan Institute of Technology, Ramanjapuram Village, BKS Mandal, Anantapur, Andhra Pradesh-515701

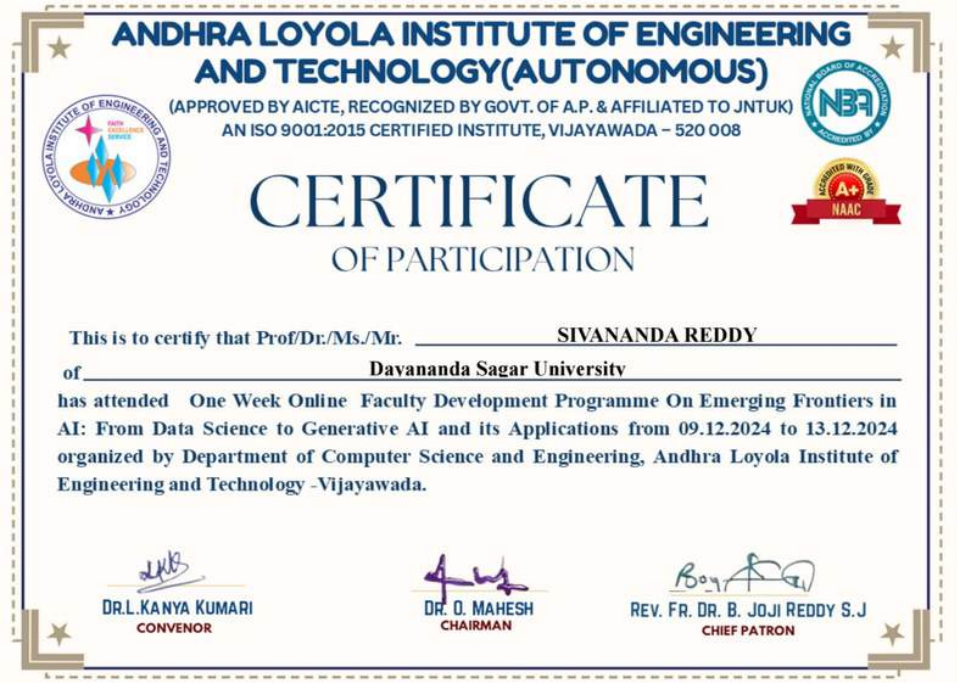
(51) International classification : A61B0005000000, A61B0005000000, A61B0005020100, G16H0040670000, A61B0005145000
(86) International Application No : NA
Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
Filing Date : NA

(57) Abstract :
A wireless health monitoring system designed to monitor diverse physiological indicators in real-time, including blood pressure, blood glucose levels, respiration rate, skin conductance, and electrodermal activity (EDA). The system integrates a variety of sensors, powered by a battery and managed by a microcontroller, which ensures seamless data collection, processing, and wireless transmission. The blood pressure and blood glucose sensors provide continuous monitoring of cardiovascular and diabetes disorders, while the respiration rate sensor aids in tracking breathing patterns for patients with respiratory ailments. Moreover, the skin conductance and EDA sensors provide insights into the autonomic nervous system, indicating stress and emotional reactions. The data gathered by the sensors is sent to a cloud or mobile platform, facilitating real-time oversight by healthcare practitioners. The system is portable, efficient, and engineered for prolonged usage, making it suitable for both domestic care and clinical settings. The integration of various sensors into a cohesive system optimizes remote patient monitoring, facilitates a proactive healthcare strategy, improves patient outcomes, and enables early identification of possible health risks.

No of Pages : 17 No of Claims : 3

The Patent Office Journal No. 49/2024 Dated 06/12/2024 115094

- Dr. Sivananda L Reddy, Associate Professor, Department of CSE has successfully attended the One-week Online Faculty Development Program on “Emerging Frontiers in AI: From Data Science to Generative AI and Its Applications” from 9th to 13th December 2024 organized by the Department of CSE, Andhra Loyola Institute of Engineering and Technology.



ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS)

(APPROVED BY AICTE, RECOGNIZED BY GOVT. OF A.P. & AFFILIATED TO JNTUK)
AN ISO 9001:2015 CERTIFIED INSTITUTE, VIJAYAWADA – 520 008

CERTIFICATE

OF PARTICIPATION

This is to certify that Prof/Dr./Ms./Mr. SIVANANDA REDDY
of Davananda Sagar University
has attended One Week Online Faculty Development Programme On Emerging Frontiers in AI: From Data Science to Generative AI and its Applications from 09.12.2024 to 13.12.2024 organized by Department of Computer Science and Engineering, Andhra Loyola Institute of Engineering and Technology -Vijayawada.

DR.L.KANYA KUMARI
CONVENOR

DR. O. MAHESH
CHAIRMAN

REV. FR. DR. B. JOJI REDDY S.J
CHIEF PATRON

- Dr. Sivananda L Reddy, Associate Professor, Department of CSE has successfully presented the paper titles “Blockchain Anchored Federated Learning and Tokenized Traceability for Sustainable Food Supply Chains” and “Utilizing Machine Learning for the Identification of Chronic Heart Failure (CHF) from Heart Pulsations“ in the 4th IEEE International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS-2024) organized by Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, Erode, Tamil Nadu, India during 12-13 December 2024.

IEEE Computational Intelligence Society

IEEE XPLORE COMPLIANT ISBN 979-8-3315-2963-5

CERTIFICATE OF PRESENTATION

This is to certify that

Dr. Sivananda Lahari Reddy

has successfully presented the paper entitled

Blockchain Anchored Federated Learning and Tokenized Traceability for Sustainable Food Supply Chains

in the

4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS 2024) organised by Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, Erode, Tamil Nadu, India.
12-13, December 2024

Session Chair

Dr. P. Karuppusamy
Conference Chair

Dr. P. Thangavel
Patron

IEEE Computational Intelligence Society

IEEE XPLORE COMPLIANT ISBN 979-8-3315-2963-5

CERTIFICATE OF PRESENTATION

This is to certify that

Dr. Sivananda Lahari Reddy

has successfully presented the paper entitled

Utilizing Machine Learning for the Identification of Chronic Heart Failure (CHF) from Heart Pulsations

in the

4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS 2024) organised by Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, Erode, Tamil Nadu, India.
12-13, December 2024

Session Chair

Dr. P. Karuppusamy
Conference Chair

Dr. P. Thangavel
Patron

Dr. Praveen Kulkarni
Associate Professor
Department of CSE

- Dr Praveen Kulkarni, Associate Professor, Department of CSE, Dayananda Sagar University has successfully participated and completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Quantum Machine Learning” at Christ Deemed to be University Kengeri Campus from 18/11/2024 to 23/11/2024.

ATAL/2024/1731743636

Skill India

ATAL

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Dr. PRAVEEN KULKARNI, Associate Professor*** *of* ***Dayananda Sagar University*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Quantum Machine Learning*** *at* ***CHRIST DEEMED TO BE UNIVERSITY KENGERI CAMPUS*** *from* ***18/11/2024*** *to* ***23/11/2024.***

Mary Anita E A
Professor Level (AICTE Institute), Coordinator
CHRIST DEEMED TO BE UNIVERSITY KENGERI CAMPUS

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Dr. George Fernandez I
Associate Professor
Department of CSE

Dr. Arunkumar Gopu
Associate Professor
Department of CSE

- Dr George Fernandez I and Dr. ArunKumar Gopu, Associate Professors, Department of CSE successfully served as Session Chair for the IEEE 4th International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES -2024) on 12th & 13th December 2024 at St. Joseph's Institute of Technology, OMR, Chennai, India.

St. JOSEPH'S INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 600 119, Tamil Nadu, India.

4th International Conference on
Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES 2024)
12th - 13th December, 2024.

CERTIFICATE

This certificate is presented to

Session Chair

Dr George Fernandez I
Associate professor,
Dept of CSE,SoEDayananda Sagar University,
Bengaluru.

as a token of appreciation for his outstanding service as a **SESSION CHAIR** for the IEEE sponsored 4th International Conference on Innovative Computing,Intelligent Communication and Smart Electrical Systems (ICSES-2024) held at St. Joseph's Institute of Technology (Autonomous) Chennai, Tamil Nadu, India, on 12th and 13th December 2024.

Dr. K. Vijayakumar
Conference Chair

Dr. S. Arivazhagan
Principal

ICSES 2024

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St. JOSEPH'S INSTITUTE OF TECHNOLOGY
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St. Joseph's Group of Institutions
OMR, Chennai - 600 119, Tamil Nadu, India.

4th International Conference on
Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES 2024)
12th - 13th December, 2024.

CERTIFICATE

This certificate is presented to

Session Chair

Dr. Arunkumar Gopu
Associate Professor,
Department of Computer Science and Engineering,
Dayananda Sagar University, Harohalli, Kanakapura Road,
Ramanagara, Karnataka 562112

as a token of appreciation for his outstanding service as a **SESSION CHAIR** for the IEEE sponsored 4th International Conference on Innovative Computing,Intelligent Communication and Smart Electrical Systems (ICSES-2024) held at St. Joseph's Institute of Technology (Autonomous) Chennai, Tamil Nadu, India, on 12th and 13th December 2024.

Dr. K. Vijayakumar
Conference Chair

Dr. S. Arivazhagan
Principal

ICSES 2024

Technical Sponsor IEEE Advancing Technology for Humanity

Technical Co-Sponsor IEEE Madras Section

Prof. Sasikala N
Assistant Professor
Department of CSE

- Prof. Sasikala, Assistant Professor, Department of CSE has successfully Presented a paper titled, "Predictive Modelling for Engineering Student Performance Forecasting and Course Correction," at TALE 2024 - IEEE Education Society's International Conference on Teaching, Assessment, and Learning for Engineering during the 10th December 2024 and also attended the workshop titled "Design and Smartly Deploy Sustainability & Decarbonisation Features in Science, Engineering & Technology Education" in the conference on 12th December 2024 at Manipal Institute of Technology, Bengaluru.


IEEE
IEEE TALE 2024
IEEE Education Society
Certificate of Attendance
this certifies that
Sasikala Nagarajan
attended
2024 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE 2024)
Bengaluru, India | 9 - 12 December, 2024
MANIPAL INSTITUTE OF TECHNOLOGY
IEEE Region 10
IEEE INDIA COUNCIL

Dr. Revathi V
Associate Professor
Department of CSE

Dr. T Gayathri
Assistant Professor
Department of CSE

- Dr. Revathi V, Associate Professor, and Dr. T Gayathri, Assistant Professor, Department of CSE successfully served as Session Chair for the IEEE 4th International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES -2024) on the 12th & 13th December 2024 at St. Joseph's Institute of Technology, OMR, Chennai, India.

St. JOSEPH'S INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 600 119, Tamil Nadu, India.

4th International Conference on
Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES 2024)
12th - 13th December, 2024.

CERTIFICATE

This certificate is presented to

Session Chair

Dr. Revathi V
Associate Professor
Dayananda SAGAR UNIVERSITY,
Bangalore

as a token of appreciation for his outstanding service as a SESSION CHAIR for the IEEE sponsored 4th International Conference on Innovative Computing,Intelligent Communication and Smart Electrical Systems (ICSES-2024) held at St. Joseph's Institute of Technology (Autonomous) Chennai, Tamil Nadu, India, on 12th and 13th December 2024.

Dr. K. Vijayakumar
Conference Chair

Dr. S. Arivazhagan
Principal

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St. JOSEPH'S INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 600 119, Tamil Nadu, India.

4th International Conference on
Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES 2024)
12th - 13th December, 2024.

CERTIFICATE

This certificate is presented to

Session Chair

Dr. T Gayathri
Assistant Professor
Dayananda SAGAR UNIVERSITY,
Bangalore

as a token of appreciation for his outstanding service as a SESSION CHAIR for the IEEE sponsored 4th International Conference on Innovative Computing,Intelligent Communication and Smart Electrical Systems (ICSES-2024) held at St. Joseph's Institute of Technology (Autonomous) Chennai, Tamil Nadu, India, on 12th and 13th December 2024.

Dr. K. Vijayakumar
Conference Chair

Dr. S. Arivazhagan
Principal

ICSES 2024

Technical Sponsor IEEE
Technical Co-Sponsor IEEE

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

Prof. Kavyashree I Pattan
Assistant Professor
Department of CSE

- Dr. Renukadevi M.N. and Prof. Kavyashree I. Pattan Assistant Professor, Department of CSE, attended and presented a paper titled "Comparative Analysis of Machine Learning Algorithms for Water Region Classification in Flood-Affected Images" at the 6th International Conference on Machine Learning, Image Processing, Network Security and Data Science (MIND 2024) at NIT, GOA, on 21st December 2024.

mind 2024
अनुसंधान नेशनल रिसर्च फाउंडेशन
Anusandhan National Research Foundation
Springer

CERTIFICATE OF PRESENTATION

This is to certify that

Renuka Devi, Kavyashree J Patten

Has attended and presented a paper tilted Comparative Analysis of Machine Learning Algorithms for Water Region Classification in Flood Affected Images in the **6th International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND 2024),** which is held at National Institute of Technology Goa, during 20 - 21 December 2024.

Dr. Chirag Modi
Organizing Chair, MIND 2024

Prof. A K Singh
General Chair, MIND 2024

mind 2024
अनुसंधान नेशनल रिसर्च फाउंडेशन
Anusandhan National Research Foundation
Springer

CERTIFICATE OF PARTICIPATION

This is to certify that

Renukadevi M.N

Has actively participated and attended the 6th International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND 2024), which is held at National Institute of Technology Goa, during 20 - 21 December 2024.

Dr. Chirag Modi
Organizing Chair, MIND 2024

Prof. A K Singh
General Chair, MIND 2024

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

- Dr. Renukadevi M.N, Assistant Professor, Department of CSE, has contributed as a session chair for Track 4 on the Network Security domain in the 6th International Conference on Machine Learning, Image Processing, Network Security and Data Science (MIND 2024) at NIT, GOA, on 21st December 2024.


mind 2024
अनुसंधान नेशनल रिसर्च फाउंडेशन
Anusandhan National Research Foundation
Springer

CERTIFICATE OF APPRECIATION

This is to certify that

Dr. Renuka Devi M.N.

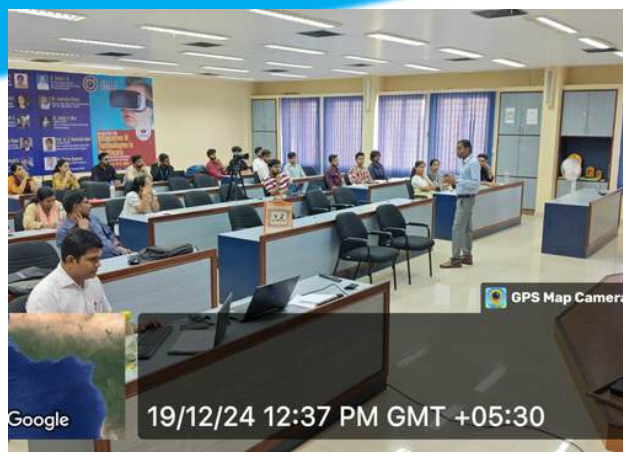
Has contributed as a **Session Chair** in the **6th International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND 2024)**, which is held at National Institute of Technology Goa, during 20 - 21 December 2024.

Dr. Chirag Modi
Organizing Chair, MIND 2024

Prof. A K Singh
General Chair, MIND 2024

Dr. Chetan V. S,
Assistant Professor
Department of CSE

- Dr. Chetan V. S, Assistant Professor, Dept. of CSE, served as a resource person for the Faculty Development Program (FDP) under the AICTE ATAL Scheme, "Integrative AI Technologies in Healthcare: Navigating the Future with Image Processing & Internet of Things", held on 16th to 21st December, 2024 at PESITM Shivamogga. He delivered the talk on "Implementing a CNN for disease detection in medical images."



Dr. Arunkumar Gopu
Associate Professor
Department of CSE

- Dr. Arunkumar Gopu, Associate Professor, Department of CSE attended the Conference on IT in Defence held on 16-17 December 2024, held at SR Valluri Auditorium, CSIR-NAL, Bengaluru Chapter in Association with CSIR-NAL, DRDO, Bengaluru.

CERTIFICATE
of Participation

CSI Bengaluru Chapter

Conference on IT in Defence [14th Edition of ITD-2024]
Theme: AI POWERED DEFENCE - Concept to Obsolescence
Organized by CSI-BC and SIG-Formal Methods, Computer Society of India

This is to certify that

Mr. Arunkumar Gopu

Associate Professor from DSU

has attended the Conference on IT in Defence held on 16-17 December, 2024 held at SR Valluri Auditorium, CSIR-NAL, Bengaluru Chapter in Association with CSIR-NAL, DRDO, Bengaluru

Dr. R.K. RAMANATHAN
Former CSI-BC Chairman,
Event Chair, CSI-ITD-2024

T. SABAPATHY
Former CSI-BC Chairman,
Chair-Programme Committee,
CSI-ITD-2024

BHANUMATHI K.S.
Former CSI-BC Chairperson,
Convener, SIG-FM, CSI India
Former ADA Scientist,
Event Co-Chair CSI-ITD-2024

Antony Peter
Chairman, CSI-BC

Dr.Bipin Kumar Rai
Professor
Department of CSE

- Dr. Bipin Kumar Rai, Professor, Dept. of CSE has contributed as TPC member and reviewer in Sixth International Conference on Soft Computing and its Engineering Applications, December 10-12, 2024, Bangkok, Thailand

Springer icSoftComp2024 CHARUSAT

CERTIFICATE OF APPRECIATION

Gratefully presented to Mr./Ms./Mrs./Dr./Prof.

Bipin kumar Rai

in recognition of valuable contribution as TPC Member and Reviewer to

2024 6th International Conference on Soft Computing and its Engineering Applications

organized by Smt. Chandaben Mohanbhai Patel Institute of Computer Applications, Charotar University of Science & Technology (CHARUSAT), Changa, India during December 10-12, 2024.

Dr. Atul Patel
(General Chair)

Dr. K. K. Patel
(Technical Program Chair)

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

- Dr. M. Indushree has successfully completed 12-week online NPTEL certification and Faculty development program for the course titled “Cloud Computing” with Elite certification during July-October 2024.

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

INDUSHREE M

for successfully completing the course

Cloud Computing

with a consolidated score of 63 %

Online Assignments	25/25	Proctored Exam	38.33/75

Total number of candidates certified in this course: 30816

Jul-Oct 2024

(12 week course)

Prof. Haimanti Banerji

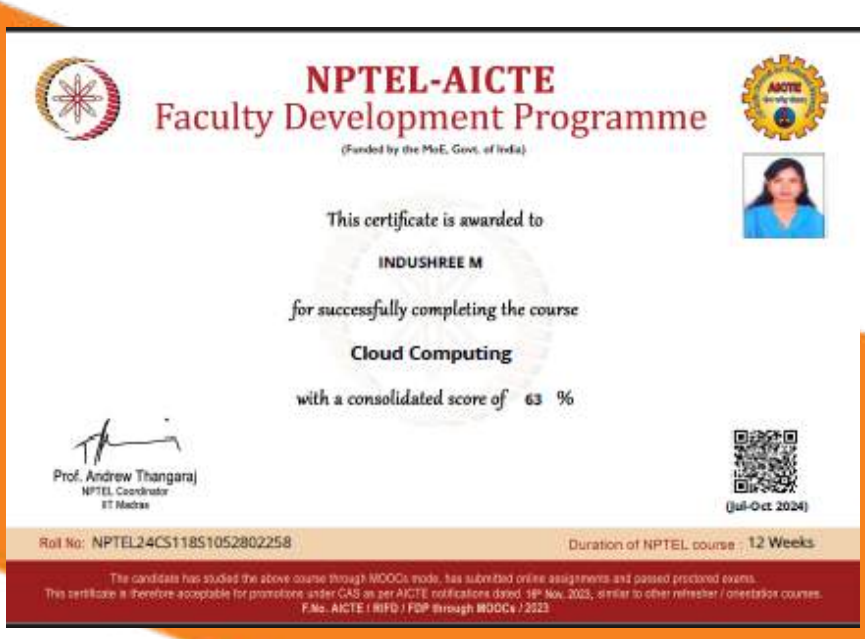
Coordinator, NPTEL

IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS118S1052802258 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

Cloud Computing

with a consolidated score of 63 %

Prof. Andrew Thangaraj

NPTEL Coordinator

IIT Madras

(Jul-Oct 2024)

Roll No: NPTEL24CS118S1052802258 Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 19th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

- Dr. Indushree M has successfully participated and completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Quantum Computing and its Applications” at Global Academy of Technology from 09.12.2024 to 14.12.2024.

ATAL/2024/1732002321

Skill India

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AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Miss Indushree M, Assistant Professor*** *of* ***Dayananda Sagar University*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Quantum Computing and its Applications*** *at* ***Global Academy of Technology*** *from* ***09/12/2024*** *to* ***14/12/2024.***

Nirmala H
Professor Level (AICTE Institute), Coordinator
Global Academy of Technology

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

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

- Dr. Mubeen Ahmed Khan has actively participated in the National Level Research Workshop (online) on" Strategies to publish research articles in reputed journals" on 04.12.2024 organized by PROGREZZ ACADEMY (Training and Research Institute), Tirupur, Tamil Nadu.

PROGREZZ ACADEMY
REG. NO: 28/0096986
TAMIL NADU, INDIA

CERTIFICATE PARTICIPATION

WE ARE PROUDLY PRESENTING THIS CERTIFICATE TO

DR. MUBEEN AHMED KHAN
ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
DAYANANDA SAGAR UNIVERSITY, RAMANAGARA
CERT. NO: PROG2024RR015

For actively participating in National Level Research Workshop (Online) on "Strategies to Publish Research Articles in Reputed Journals" on 04.12.2024 organized by PROGREZZ ACADEMY (Training and Research Institute), Tiruppur, Tamil Nadu.

05-12-2024
ISSUED ON

DR.C. SUDHARSHAN
MANAGING DIRECTOR
PROGREZZ ACADEMY

- Dr. Mubeen Ahmed Khan has completed the Module: Content Ownership from Researcher Academy on 19.12.2024.

Researcher Academy researcheracademy.com

Certificate of Completion

ELSEVIER

This certifies that

Mubeen Ahmed Khan

has successfully completed the following module

Content ownership (40 minutes)

on Thursday 19 December, 2024

Presented by Christiaan van Vliet

Laura Hassink

Managing Director, Science, Technology & Medical Journals, Elsevier

Dr. Durbadal Chattaraj
Associate Professor & Chairperson
Department of CSE(CY)

- Dr. Durbadal Chattaraj has actively participated in the hybrid seminar on “Transaction-Level Verilog and its Ecosystem” by Steeve Hoover organized by IEEE-IISc VLSI Chapter on 03.12.2024.
- Dr. Durbadal Chattaraj has actively participated in the hybrid seminar on “Test Pattern Generation using SAT Attack” by Dr. Ujjwal Guin organized by IEEE-IISc VLSI Chapter on 28.11.2024.

- Dr. Durbadal Chattaraj along with students from the 5th semester and 7th semester of Cyber security attended the 31st IEEE International Conference on High-Performance Computing, Data and Analytics, four days conference held from 18.12.2024 to 21.12.2024 at the Radisson Blu, Marathahalli, Bengaluru. Continuing its legacy, HiPC 2024 brought together a global community of researchers, academicians, and industry experts to discuss advancements in high-performance computing (HPC), data science, and analytics. The conference featured workshops, keynote sessions, technical paper presentations, poster sessions, and networking opportunities.

Dr. Dilip Kumar Jang Bahadur Saini
Associate Professor
Department of CSE(CY)

- Dr. Dilipkumar Jang Bahadur Saini has published a paper titled" Innovative real Estate Management System: Artificial Intelligence-based Segregation" in the 5th International conference on Smart Electronics and communication (ICOSEC),2024. DOI: 10.1109/ICOSEC61587.2024.10722189

5th International Conference on Smart Electronics and Communication (ICOSEC 2024)
IEEE Xplore Part Number: CFP24V90-ART; ISBN: 979-8-3315-0440-3

Innovative Real Estate Management System: Artificial Intelligence-based Segregation

1st Dr. Kapil Joshi
Associate Professor
Department of Computer Science & Engineering,
Uttaranchal Institute of Technology (UIT), Uttaranchal University
Dehradun, Uttarakhand, India
kapilengg0509@gmail.com
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2nd Dr Kawerinder Singh Sidhu
Assistant Professor
Uttaranchal Institute of Management, Uttaranchal University,
Dehradun, Uttarakhand, India
kssidhu0410@gmail.com

3rd Dr. Neeru Malik
Associate Professor
School of Engineering & Technology
Pimpri Chinchwad University, Pune,
Maharashtra, India.
neeru1508@gmail.com

4th Archana Jadhav
Assistant Professor
School of Engineering and Technology,
Pimpri Chinchwad University,
archana.rasal700@gmail.com

5th Dr. Dilipkumar Jang Bahadur Saini
Associate Professor, Department of Computer Science and Engineering, School of Engineering(SOE) ,
Dayananda Sagar University, Bangalore 560 068, India
dilipsaini@gmail.com
0000-0002-7608-8788

6th Dhirendra Siddharth
Computer Science and Engineering
Galgotias University
Greater Noida, India
siddharth.dhirendra1@gmail.com

Abstract — **Information technology has grown very fast and has led to a lot of changes in the property industry, thus demanding businesses to enhance their operational standards. This research study analyses how an advanced Real Estate Management System is designed and executed; this includes creating useful functions for working with data (CRUD operations), and better security measures among others like complex information visualization frameworks. The MERN stack is used here where innovative technologies are employed such as MongoDB as the database system; Express.js which is a web application framework running on Node.js; React that allows building user interfaces and finally Node.js itself being used for server-side scripting enabling asynchronous event-driven I/O. It offers a flexible and responsive structure that can handle huge sets of data common with real estate transactions during different stages. Apart from that, the system has a very broad user authentication method that adheres to the best practices used in the industry for ensuring data integrity and confidentiality. The system also comes with extensive data visualization capabilities by leveraging charting libraries like D3.js and Chart.js which allow quick viewing of property information, financials as well as market analysis by clients and administrators alike. In impact, the whole thing works as a planning tool, allowing professionals in the property sector to the productivity, safety, and definition of vision necessary to make accurate choices in a rapidly evolving digital context.**

Keywords—Real State, React, Property management, Visual insights, Security, MERN Stack, MongoDB, Visualization tools, Authentication flow.

I. INTRODUCTION

The industry of real estate is distinguished by a continuous flow of data, that involves tenant details, properties, and finances. For people working in the property industry who want to remain competitive, analysing and utilizing this continuous flood of information is crucial. Recognizing the need for understanding, this article will present a comprehensive study on how to create and apply an up-to-date residential property management system. Such a system integrates modern features that improve upon traditional functions of basic property management to make them more efficient in running the industry at large.

This system is meant to address problems caused by dealing with large and diverse datasets within the real estate industry. It doesn't just keep track of properties, clients, and financials; it also has additional tiers of user verification for added security. In this age of technology, having robust security measures is very important which this system provides. Furthermore, it has highly useful data presentation features that can help people make good judgements. With appropriate technology, individuals are able to comprehend the ever-changing property market and therefore make wiser decisions.

This document describes an innovative approach to the housing market that combines contemporary technological advancements with consumer protection and data-driven strategic recommendations. Its main objective is to streamline real estate transactions through current industry knowledge while beefing up security and underpinning sound judgments with credible figures.

II. LITERATURE REVIEW

Real estate management plays a crucial role in the fast-paced economic growth of today for several reasons. Here are detailed explanations of its significance:

A. Economic Contribution:

Real property, consisting of buildings for residential use, businesses, and industries, contributes to a large amount of a nation's assets. Successful administration makes sure that these valuable resources can be utilized to their extreme potential, leading to economic growth. Property transactions, such as buying, selling, and leasing, generate a significant amount of economic activity, as do real estate development, construction, and related services[1].

2024 5th International Conference on Smart Electronics and Communication (ICOSEC) | 979-8-3315-0440-3/24/$31.00 ©2024 IEEE | DOI: 10.1109/ICOSEC61587.2024.10722189

Dr. Prajwalasimha S N
Assistant Professor
Department of CSE(CY)

- Dr. Prajwalasimha.S. N has completed the below modules of National Institute of Technical Teachers Training and Research (NITTTR) powered by All India Council for Technical Education (AICTE) during September 2024.
- Module 2: Professional Ethics and Sustainability
- Module 5: Technology Enabled Learning and Life-Long Self Learning
- Module 8: Institutional Management and Administrative Procedures

No: 12/2024/1/M2/107418

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मॉड्यूल 2 : वृत्तिक आचार नीति और संधारणीयता

को सफलता पूर्वक पूर्ण किया।

All India Council for Technical Education (AICTE)

Certificate

This is to certify that

PRAJWALASIMHA S N

NITTT Registration No: 20202111881

has successfully completed

Module 2 : Professional Ethics and Sustainability

of

National Initiative for Technical Teachers Training

Director NITTTR, Bhopal | Director NITTTR, Chandigarh | Member Secretary AICTE | Director NITTTR, Chennai | Director NITTTR, Kolkata

SEPTEMBER 2024

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के अंतर्गत

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को सफलता पूर्वक पूर्ण किया।

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Certificate

This is to certify that

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NITTT Registration No: 20202111881

has successfully completed

Module 5 : Technology Enabled Learning and Life-Long Self Learning

of

National Initiative for Technical Teachers Training

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SEPTEMBER 2024

No: 12/2024/1/M8/107420

अखिल भारतीय तकनीकी शिक्षा परिषद्

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एनआईटीटीटी पंजीयन क्रमांक :20202111881

ने

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के अंतर्गत

मॉड्यूल 8 : संस्थागत प्रबंधन और प्रशासनिक कार्यविधि

को सफलता पूर्वक पूर्ण किया।

All India Council for Technical Education (AICTE)

Certificate

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PRAJWALASIMHA S N

NITTT Registration No: 20202111881

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Module 8 : Institutional Management and Administrative Procedures

of

National Initiative for Technical Teachers Training

Director NITTTR, Bhopal | Director NITTTR, Chandigarh | Member Secretary AICTE | Director NITTTR, Chennai | Director NITTTR, Kolkata

SEPTEMBER 2024

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

- Prof. K. Deepthika completed the below modules of the National Institute of Technical Teachers Training and Research (NITTTR) powered by the All India Council for Technical Education (AICTE) in September 2024.
- Module 5: Technology-Enabled Learning and Life-Long Self-Learning
- Module 8: Institutional Management and Administrative Procedures

swayam

अखिल भारतीय तकनीकी शिक्षा परिषद्

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प्रमाणित किया जाता है कि

एनआईटीटीटी पंजीयन क्रमांक :20241127723

ने

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण पहल

के अंतर्गत

मॉड्यूल 5 : प्रौद्योगिकी समर्थित अधिगम और आजीवन स्वाधिगम

को सफलता पूर्वक पूर्ण किया।

All India Council for Technical Education (AICTE)

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DEEPTHIKA KARUPPUSAMY

NITTT Registration No: 20241127723

has successfully completed

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of

National Initiative for Technical Teachers Training

SEPTEMBER 2024

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के अंतर्गत

मॉड्यूल 8 : संस्थागत प्रबंधन और प्रशासनिक कार्यविधि

को सफलता पूर्वक पूर्ण किया।

All India Council for Technical Education (AICTE)

Certificate

This is to certify that

DEEPTHIKA KARUPPUSAMY

NITTT Registration No: 20241127723

has successfully completed

Module 8 : Institutional Management and Administrative Procedures

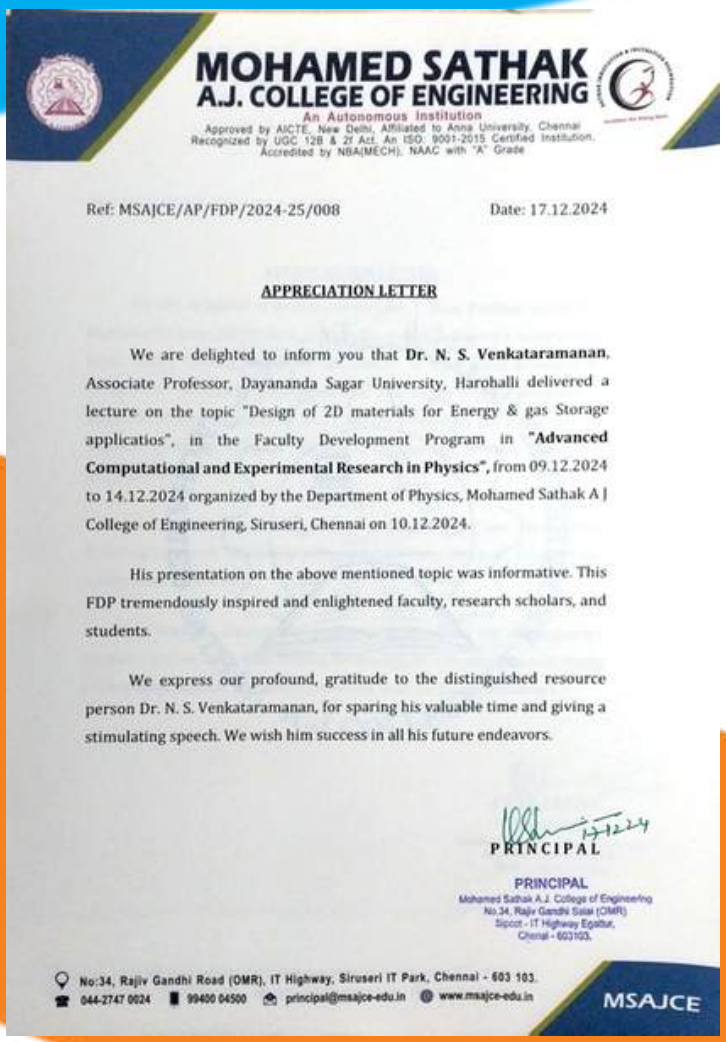
of

National Initiative for Technical Teachers Training

SEPTEMBER 2024

Dr. Venkataramanan N S
Associate Professor
Department of Chemistry

- Dr. VENKATARAMANAN N.S., Department of Chemistry, delivered a lecture on the topic “Design of 2D materials for energy & gas storage applications” in the Faculty Development Program in “Advanced Computational and Experimental Research in Physics” organized by the Department of Physics, Mohamed Sathak A J College of Engineering, Siruseri, Chennai on 10.12.2024.



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Accredited by NBA(MECH), NAAC with "A" Grade

Ref: MSAJCE/AP/FDP/2024-25/008 Date: 17.12.2024

APPRECIATION LETTER

We are delighted to inform you that **Dr. N. S. Venkataramanan**, Associate Professor, Dayananda Sagar University, Harohalli delivered a lecture on the topic "Design of 2D materials for Energy & gas Storage applicatios", in the Faculty Development Program in **"Advanced Computational and Experimental Research in Physics"**, from 09.12.2024 to 14.12.2024 organized by the Department of Physics, Mohamed Sathak A J College of Engineering, Siruseri, Chennai on 10.12.2024.

His presentation on the above mentioned topic was informative. This FDP tremendously inspired and enlightened faculty, research scholars, and students.

We express our profound, gratitude to the distinguished resource person Dr. N. S. Venkataramanan, for sparing his valuable time and giving a stimulating speech. We wish him success in all his future endeavors.

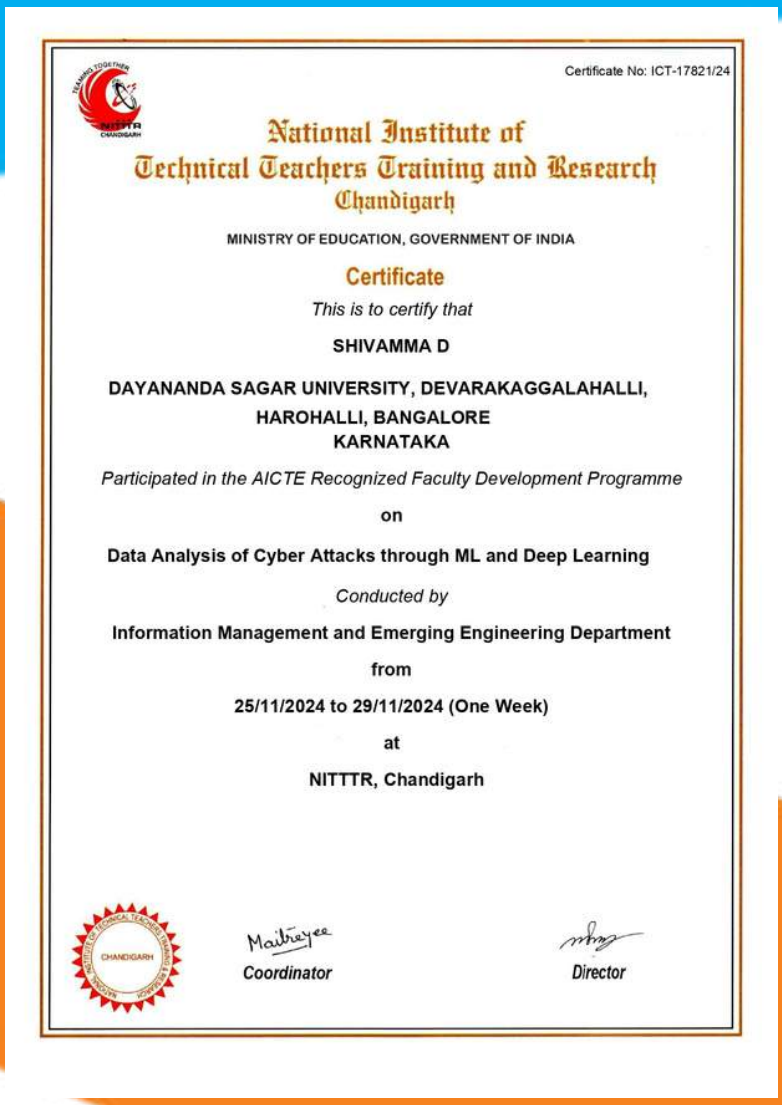
17.12.24
PRINCIPAL

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.

No:34, Rajiv Gandhi Road (OMR), IT Highway, Siruseri IT Park, Chennai - 603 103.
044-2747 0024 99400 04500 principal@msajce-edu.in www.msajce-edu.in
MSAJCE

Prof. Shivamma D
Assistant Professor
Department of CSE(DS)

- Prof. Shivamma D, Assistant Professor, participated in the AICTE Recognized Faculty Development Programme on Data Analysis of Cyber Attacks through ML and Deep Learning conducted by the Information Management and Emerging Engineering Department from 25/11/2024 to 29/11/2024 (One Week) at NITTTR, Chandigarh.



Certificate No: ICT-17821/24

National Institute of
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SHIVAMMA D

DAYANANDA SAGAR UNIVERSITY, DEVARAKAGGALAHALLI,
HAROHALLI, BANGALORE
KARNATAKA

Participated in the AICTE Recognized Faculty Development Programme

on

Data Analysis of Cyber Attacks through ML and Deep Learning

Conducted by

Information Management and Emerging Engineering Department

from

25/11/2024 to 29/11/2024 (One Week)

at

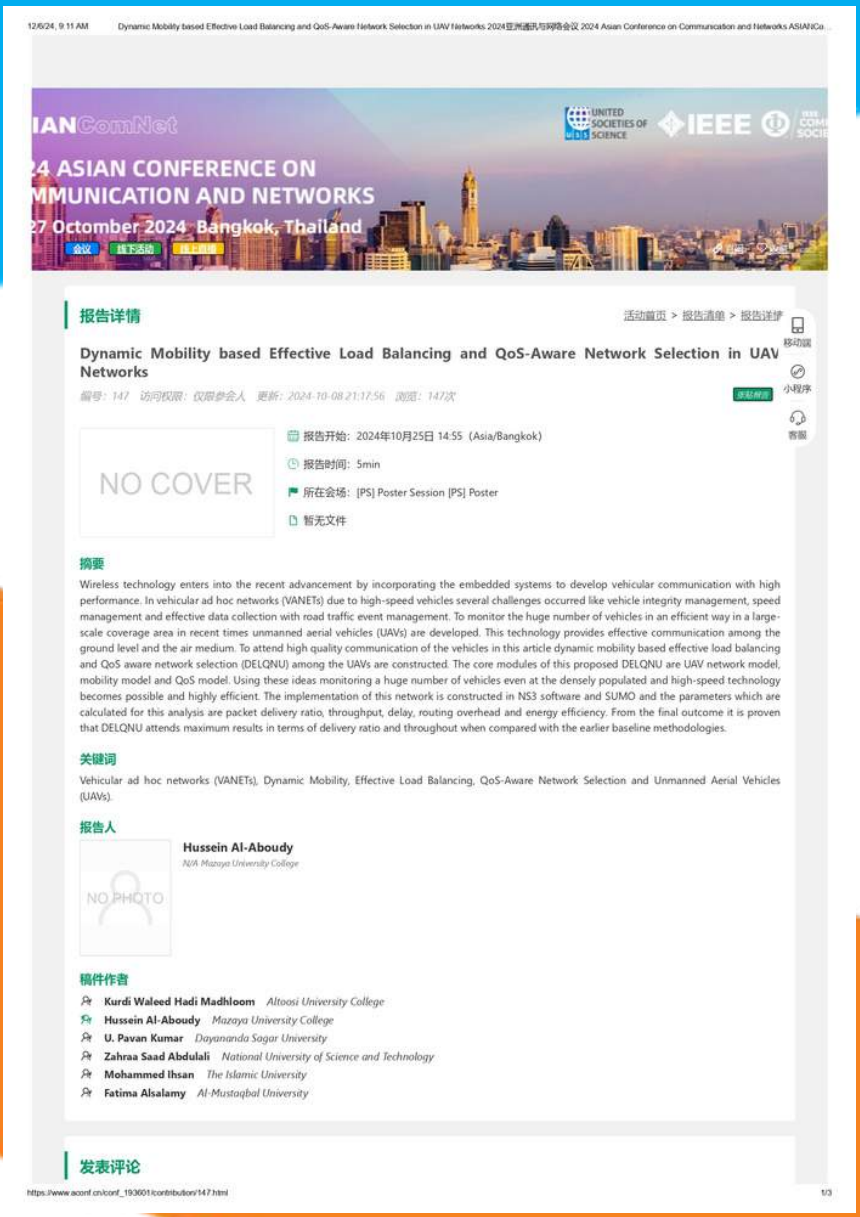
NITTTR, Chandigarh

Maitreyee
Coordinator

Director

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

- Dr. U. Pavan Kumar has successfully presented the paper titled "Dynamic Mobility-Based Effective Load Balancing and QoS-Aware Network Selection in UAV Networks" at the 2024 Asian Conference on Communication and Networks (ASIANComNet), held from October 24–27, 2024, in Bangkok, Thailand. This conference is recognized under IEEE Conference ID 63184.



12/6/24, 9:11 AM Dynamic Mobility based Effective Load Balancing and QoS-Aware Network Selection in UAV Networks 2024亚洲通讯与网络会议 2024 Asian Conference on Communication and Networks ASIANCo...

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Dynamic Mobility based Effective Load Balancing and QoS-Aware Network Selection in UAV Networks

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报告开始：2024年10月25日 14:55 (Asia/Bangkok)
报告时间：5min
所在会场：[PS] Poster Session [PS] Poster
暂无文件

摘要

Wireless technology enters into the recent advancement by incorporating the embedded systems to develop vehicular communication with high performance. In vehicular ad hoc networks (VANETs) due to high-speed vehicles several challenges occurred like vehicle integrity management, speed management and effective data collection with road traffic event management. To monitor the huge number of vehicles in an efficient way in a large-scale coverage area in recent times unmanned aerial vehicles (UAVs) are developed. This technology provides effective communication among the ground level and the air medium. To attend high quality communication of the vehicles in this article dynamic mobility based effective load balancing and QoS aware network selection (DELQNU) among the UAVs are constructed. The core modules of this proposed DELQNU are UAV network model, mobility model and QoS model. Using these ideas monitoring a huge number of vehicles even at the densely populated and high-speed technology becomes possible and highly efficient. The implementation of this network is constructed in NS3 software and SUMO and the parameters which are calculated for this analysis are packet delivery ratio, throughput, delay, routing overhead and energy efficiency. From the final outcome it is proven that DELQNU attends maximum results in terms of delivery ratio and throughout when compared with the earlier baseline methodologies.

关键词

Vehicular ad hoc networks (VANETs), Dynamic Mobility, Effective Load Balancing, QoS-Aware Network Selection and Unmanned Aerial Vehicles (UAVs).

报告人

NO PHOTO

Hussein Al-Aboudy
N/A Mazaya University College

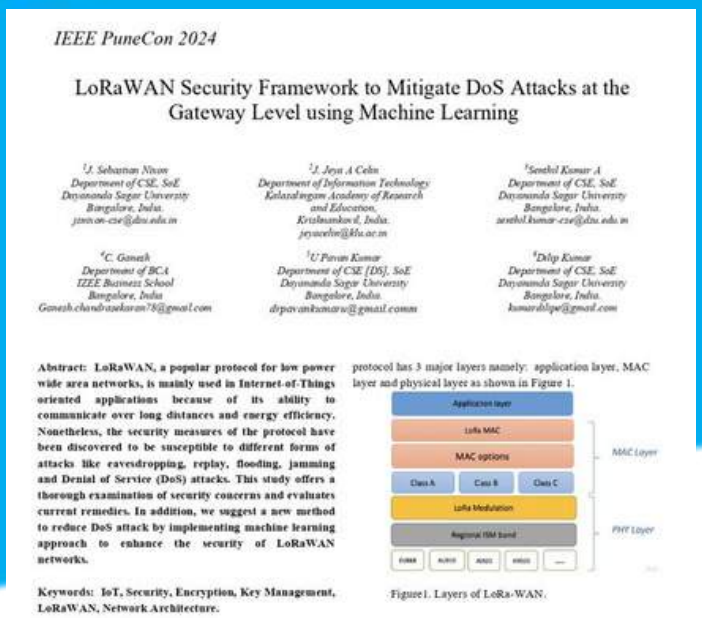
稿件作者

Kurdi Waleed Hadi Madhloom *Altoosi University College*
Hussein Al-Aboudy *Mazaya University College*
U. Pavan Kumar *Dayananda Sagar University*
Zahraa Saad Abdulali *National University of Science and Technology*
Mohammed Ihsan *The Islamic University*
Fatima Alsalamy *Al-Mustaqbal University*

发表评论

https://www.aconf.cn/conf_193601/contribution/147.html 1/3

- Dr. U. Pavan Kumar, Assistant Professor participated in the conference for the research paper “LoRaWAN Security Issues and Proposed ML Based Mechanism to Mitigate DoS Attacks at the Gateway Level” in the 7th IEEE International Conference PUNECON 2024 held from 13th - 15th December 2024, jointly organized by the Defence Institute of Advanced Technology (DIAT) and IEEE Pune Section at DIAT Pune, Maharashtra, India.



IEEE PuneCon 2024

LoRaWAN Security Framework to Mitigate DoS Attacks at the Gateway Level using Machine Learning

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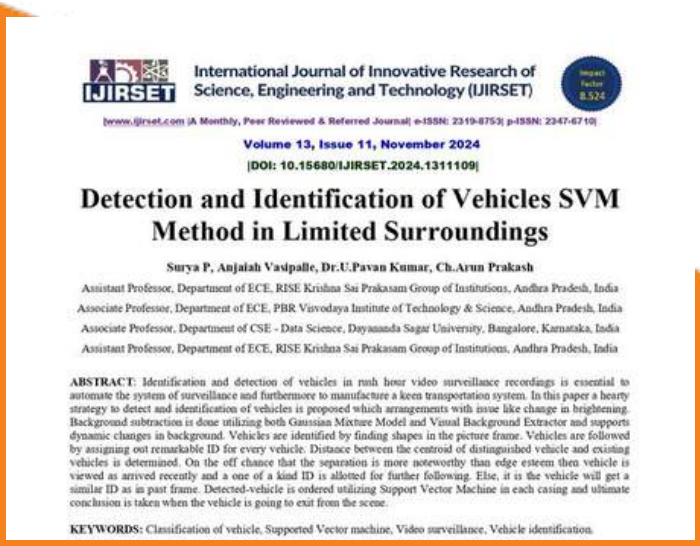
Abstract: LoRaWAN, a popular protocol for low power wide area networks, is mainly used in Internet-of-Things oriented applications because of its ability to communicate over long distances and energy efficiency. Nonetheless, the security measures of the protocol have been discovered to be susceptible to different forms of attacks like eavesdropping, replay, flooding, jamming and Denial of Service (DoS) attacks. This study offers a thorough examination of security concerns and evaluates current remedies. In addition, we suggest a new method to reduce DoS attack by implementing machine learning approach to enhance the security of LoRaWAN networks.

Keywords: IoT, Security, Encryption, Key Management, LoRaWAN, Network Architecture.

protocol has 3 major layers namely: application layer, MAC layer and physical layer as shown in Figure 1.

Figure1. Layers of LoRa-WAN.

- Dr. U. Pavan Kumar has successfully presented the paper titled “Detection and Identification of Vehicles SVM Method in Limited Surroundings” International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol.13 Issue 11, November 2024.



IJIRSET International Journal of Innovative Research of Science, Engineering and Technology (IJIRSET)

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Volume 13, Issue 11, November 2024

|DOI: 10.15680/IJIRSET.2024.1311109|

Detection and Identification of Vehicles SVM Method in Limited Surroundings

Surya P, Anjaiah Vaipalle, Dr.U.Pavan Kumar, Ch.Arun Prakash

Assistant Professor, Department of ECE, RISE Krishna Sai Prakasam Group of Institutions, Andhra Pradesh, India

Associate Professor, Department of ECE, PBR Visvodaya Institute of Technology & Science, Andhra Pradesh, India

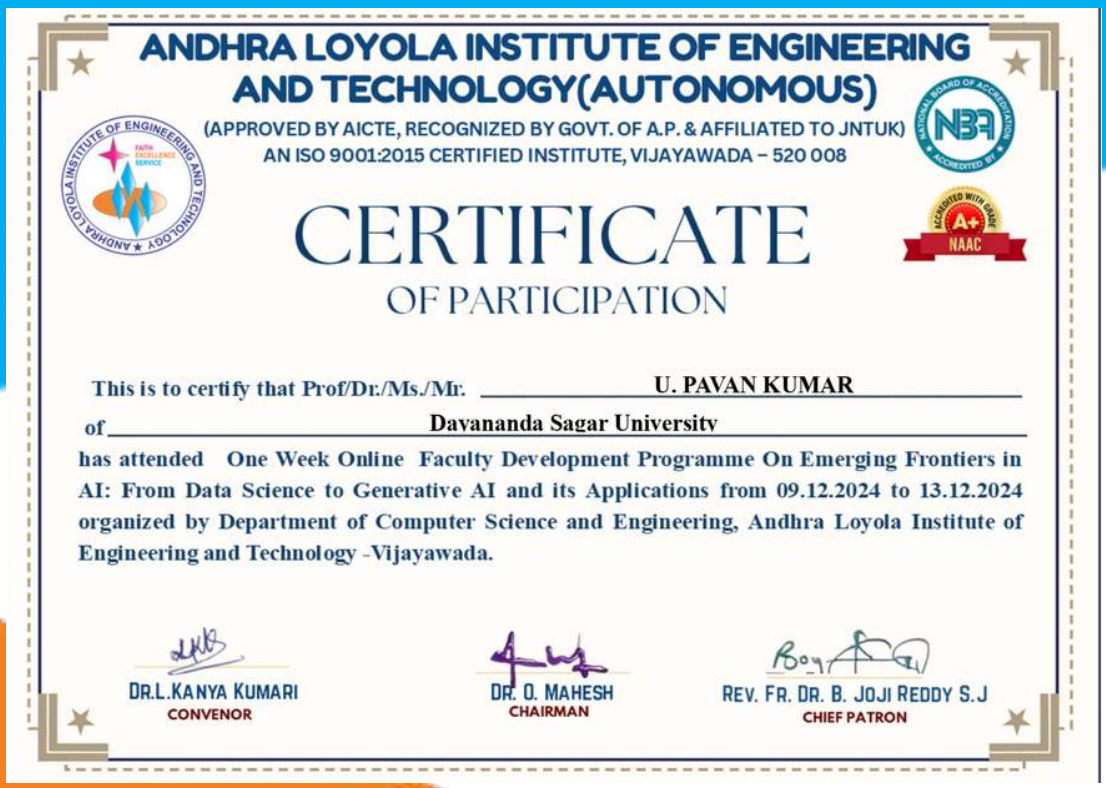
Associate Professor, Department of CSE - Data Science, Dayananda Sagar University, Bangalore, Karnataka, India

Assistant Professor, Department of ECE, RISE Krishna Sai Prakasam Group of Institutions, Andhra Pradesh, India

ABSTRACT: Identification and detection of vehicles in rush hour video surveillance recordings is essential to automate the system of surveillance and furthermore to manufacture a keen transportation system. In this paper a hearty strategy to detect and identification of vehicles is proposed which arrangements with issue like change in brightening. Background subtraction is done utilizing both Gaussian Mixture Model and Visual Background Extractor and supports dynamic changes in background. Vehicles are identified by finding shapes in the picture frame. Vehicles are followed by assigning out remarkable ID for every vehicle. Distance between the centroid of distinguished vehicle and existing vehicles is determined. On the off chance that the separation is more noteworthy than edge esteem then vehicle is viewed as arrived recently and a one of a kind ID is allotted for further following. Else, it is the vehicle will get a similar ID as in past frame. Detected-vehicle is ordered utilizing Support Vector Machine in each casing and ultimate conclusion is taken when the vehicle is going to exit from the scene.

KEYWORDS: Classification of vehicle, Supported Vector machine, Video surveillance, Vehicle identification.

- Dr. U. Pavan Kumar, Assistant Professor, attended the One Week Online Faculty Development program on Emerging Frontiers in AI: From Data Science to Generative AI and its Applications from 09.12.2024 to 13.12.2024 organized by the Department of Computer Science and Engineering, Andhra Loyola Institute of Engineering and Technology-Vijayawada.



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CERTIFICATE

OF PARTICIPATION

This is to certify that Prof/Dr./Ms./Mr. U. PAVAN KUMAR
of Davananda Sagar University
has attended One Week Online Faculty Development Programme On Emerging Frontiers in AI: From Data Science to Generative AI and its Applications from 09.12.2024 to 13.12.2024 organized by Department of Computer Science and Engineering, Andhra Loyola Institute of Engineering and Technology -Vijayawada.

DR.L.KANYA KUMARI
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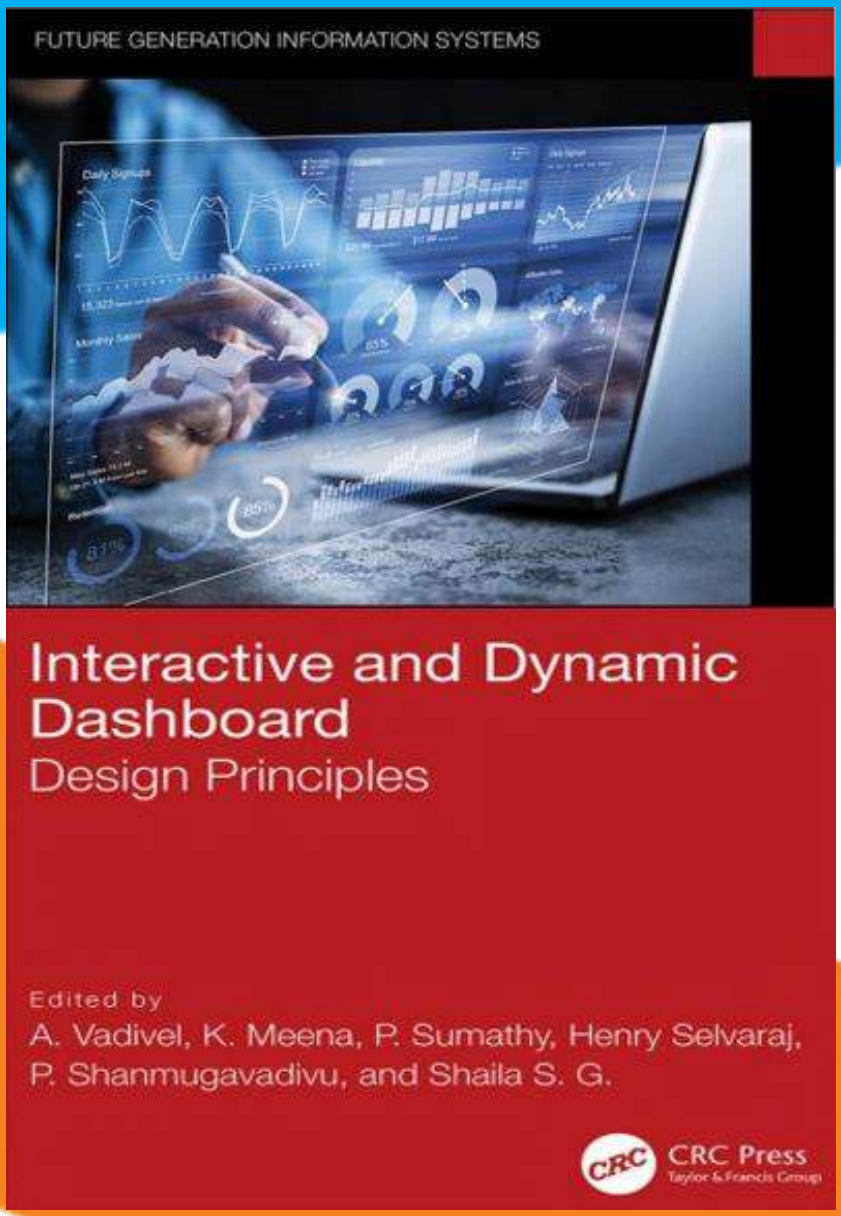
REV. FR. DR. B. JOJI REDDY S.J
CHIEF PATRON

Prof. Manjula M
Assistant Professor
Department of CSE(DS)

- Prof. Manjula M participated as a Mentor Grand Finale Smart India Hackathon 2024 at NIT Srinagar Jammu & Kashmir from 11-12th December 2024.

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

- Dr. Shaila S G, Professor & Chairperson, Published a book Interactive and Dynamic Dashboard: Design Principles at CRC Press Taylor & Francis Group.



- Dr. Shaila S G, Professor & Chairperson, has successfully participated & completed the AICTE Training And Learning (ATAL) Academy Faculty Development Program on Artificial Intelligence in Data Science Applications at MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY from 13/12/2024 to 19/12/2024

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AICTE Training and Learning (ATAL) Academy

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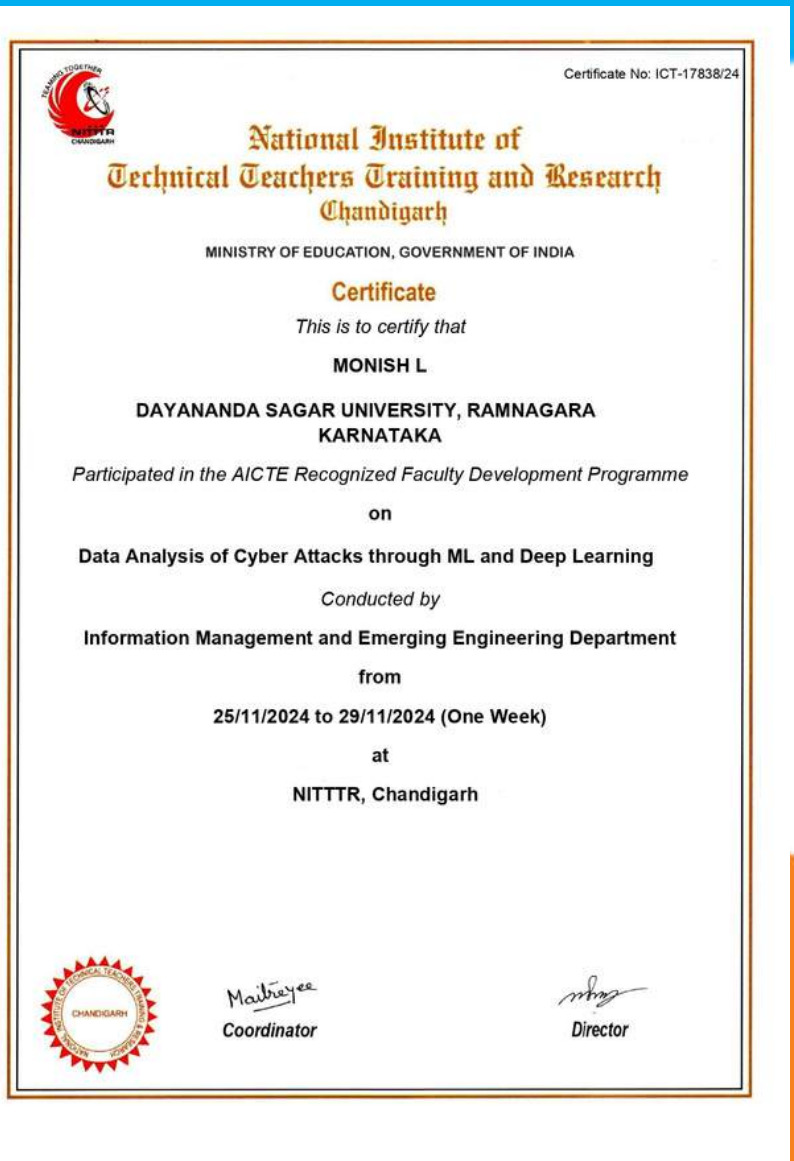
It is certified that ***Dr. Shaila S G, Professor*** *of* ***Dayananda Sagar University Bangalore*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Artificial Intelligence in Data Science Applications*** *at* ***MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY*** *from* ***13/12/2024*** *to* ***19/12/2024.***

Uma N Dulhare
Professor Level (AICTE Institute), Coordinator
MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

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

- Prof. Monish L, Assistant Professor, participated in the AICTE Recognized Faculty Development Programme on Data Analysis of Cyber Attacks through ML and Deep Learning conducted by the Information Management and Emerging Engineering Department from 25/11/2024 to 29/11/2024 (One Week) at NITTTR, Chandigarh.



Certificate No: ICT-17838/24

National Institute of
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Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

MONISH L

DAYANANDA SAGAR UNIVERSITY, RAMNAGARA
KARNATAKA

Participated in the AICTE Recognized Faculty Development Programme

on

Data Analysis of Cyber Attacks through ML and Deep Learning

Conducted by

Information Management and Emerging Engineering Department

from

25/11/2024 to 29/11/2024 (One Week)

at

NITTTR, Chandigarh

Maitreyee
Coordinator

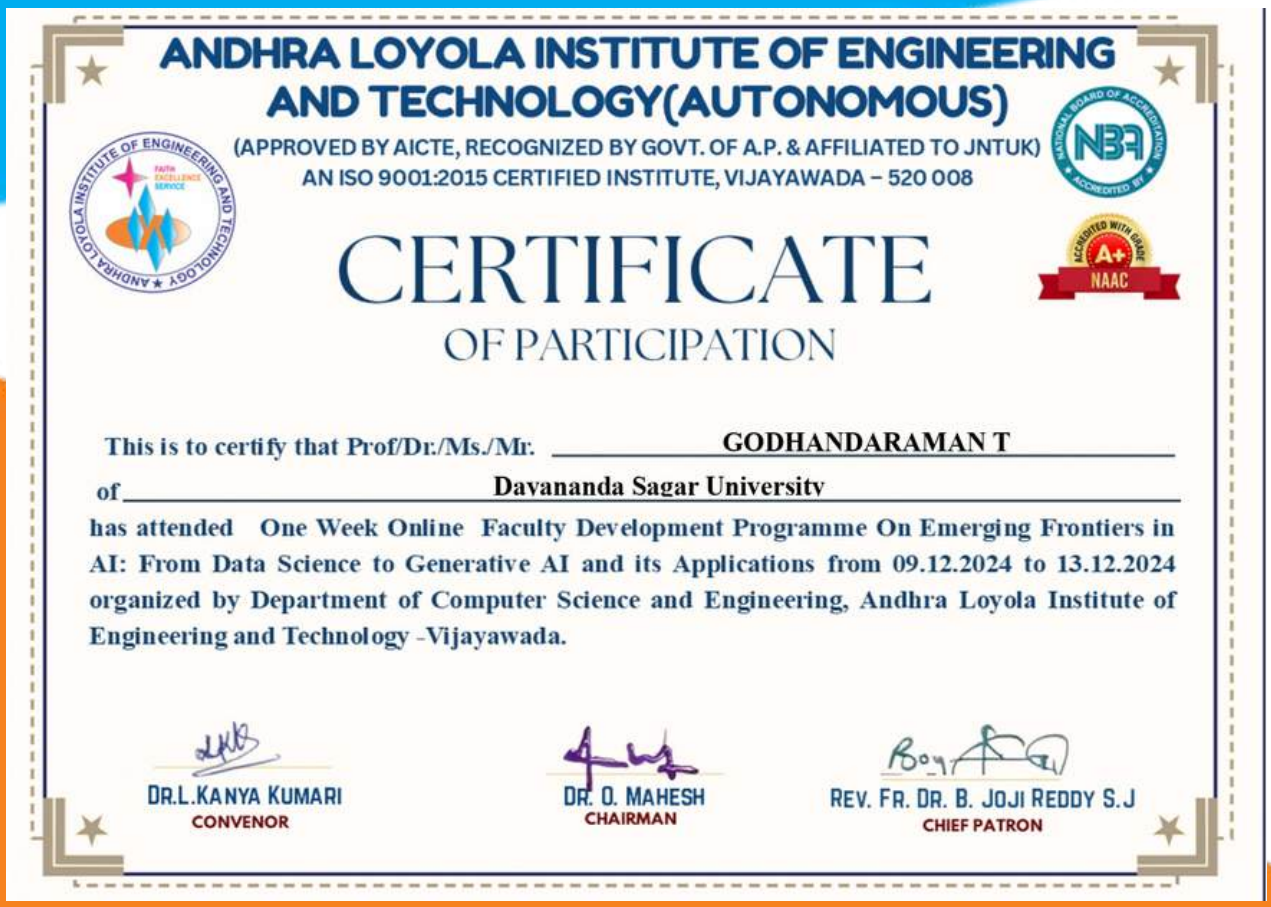
Director

- Prof. Monish L, Assistant Professor has successfully completed a free online course Python Project for Beginners provided by Great Learning Academy in December 2024.

- Prof. Monish L, Assistant Professor has successfully completed a free online course Prompt Engineering for ChatGPT provided by Great Learning Academy in December 2024.

Prof. Godhandaraman T
Assistant Professor
Department of CSE(DS)

- Prof. Godhandaraman T, Assistant Professor, attended the One Week Online Faculty Development program on Emerging Frontiers in AI: From Data Science to Generative AI and its Applications from 09.12.2024 to 13.12.2024 organized by the Department of Computer Science and Engineering, Andhra Loyola Institute of Engineering and Technology-Vijayawada.



ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS)

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AN ISO 9001:2015 CERTIFIED INSTITUTE, VIJAYAWADA – 520 008

CERTIFICATE

OF PARTICIPATION

This is to certify that Prof/Dr./Ms./Mr. GODHANDARAMAN T

of Davananda Sagar University

has attended One Week Online Faculty Development Programme On Emerging Frontiers in AI: From Data Science to Generative AI and its Applications from 09.12.2024 to 13.12.2024 organized by Department of Computer Science and Engineering, Andhra Loyola Institute of Engineering and Technology -Vijayawada.

DR.L.KANYA KUMARI
CONVENOR

DR. O. MAHESH
CHAIRMAN

REV. FR. DR. B. JOJI REDDY S.J
CHIEF PATRON

Prof. Sindhu A
Assistant Professor
Department of CSE(DS)

- Prof. Sindhu A, Assistant Professor has successfully participated in & completed the AICTE Training And Learning (ATAL) Academy Faculty Development Program on Artificial Intelligence in Data Science Applications at MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY from 13/12/2024 to 19/12/2024.

ATAL/2024/1733417509

Skill India

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Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

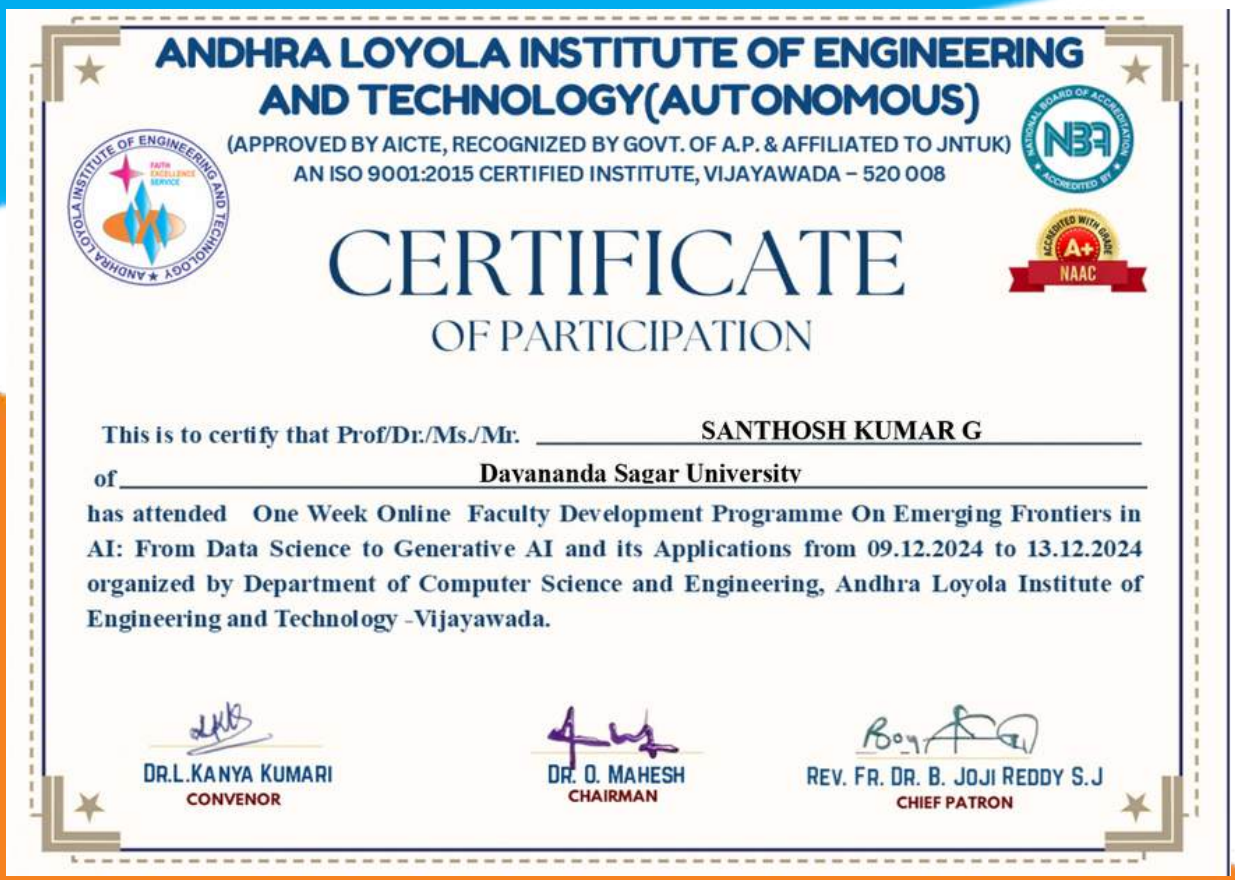
It is certified that ***Mrs. SINDHU A, Assistant Professor*** *of* ***Dayananda Sagar University*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Artificial Intelligence in Data Science Applications*** *at* ***MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY*** *from* ***13/12/2024*** *to* ***19/12/2024.***

Uma N Dulhare
Professor Level (AICTE Institute), Coordinator
MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

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

- Dr. Santhosh Kumar G, Associate Professor, attended the One Week Online Faculty Development program on Emerging Frontiers in AI: From Data Science to Generative AI and its Applications from 09.12.2024 to 13.12.2024 organized by the Department of Computer Science and Engineering, Andhra Loyola Institute of Engineering and Technology-Vijayawada.



ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS)

(APPROVED BY AICTE, RECOGNIZED BY GOVT. OF A.P. & AFFILIATED TO JNTUK)
AN ISO 9001:2015 CERTIFIED INSTITUTE, VIJAYAWADA – 520 008

CERTIFICATE
OF PARTICIPATION

This is to certify that Prof/Dr./Ms./Mr. SANTHOSH KUMAR G
of Davananda Sagar University
has attended One Week Online Faculty Development Programme On Emerging Frontiers in AI: From Data Science to Generative AI and its Applications from 09.12.2024 to 13.12.2024 organized by Department of Computer Science and Engineering, Andhra Loyola Institute of Engineering and Technology -Vijayawada.

DR.L.KANYA KUMARI
CONVENOR

DR. O. MAHESH
CHAIRMAN

REV. FR. DR. B. JOJI REDDY S.J
CHIEF PATRON

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

- Dr. Suresh A, Associate Professor, has successfully participated & completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on Artificial Intelligence in Data Science Applications at MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY from 13/12/2024 to 19/12/2024.

ATAL/2024/1733403108

Skill India

ATAL

AICTE

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Dr. Suresh Arumugam, Associate Professor*** *of* ***Dayananda Sagar University*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Artificial Intelligence in Data Science Applications*** *at* ***MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY*** *from* ***13/12/2024*** *to* ***19/12/2024.***

Uma N Dulhare
Professor Level (AICTE Institute), Coordinator
MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Dr. P M G B Asdaque
Assistant Professor
Department of ME

Dr. Viswanathan R
Associate Professor
Department of ME

- Dr. P M G Bashir Asdaque and Dr. Viswanathan R visited Flora Educational Society, Pune to participate in FDP supported by Dassault Systems and organized by Dr. Mohan Godse.

Prof. M Lorate Shiny
Assistant Professor
Department of ECE

- Prof. M Lorate Shiny successfully presented their paper, “Design and Development of Pulse Rate Monitoring System Powered by STM32 Microcontroller,” at the 5th International Conference on IoT-Based Control Networks and Intelligent Systems (ICICNIS 2024).

IEEE T. JOHN INSTITUTE OF TECHNOLOGY ICICNIS IEEE SMC

5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS - 2024)

17-18, December 2024

Certificate of Presentation

This is to certify that

M Lorate Shiny

has successfully presented the paper entitled

Design and Development of Pulse Rate Monitoring System Powered by STM32 Microcontroller

at the

5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024) organised by T. John Institute of Technology, Bengaluru, India held on 17-18, December 2024.

Session Chair

Dr. Asha S Manek
Program Chair

Dr. P. Suresh Venugopal
Patron

Prof. Nadeem Pasha
Assistant Professor
Department of ECE

- Prof. Nadeem Pasha, Assistant Professor, Department of Electronics and Communication Engineering at Dayananda Sagar University, has successfully completed the AICTE ATAL Faculty Development Program on Crystal Growth, Semiconductor Processing, and Manufacturing Technologies held at the prestigious Indian Institute of Technology (Indian School of Mines), Dhanbad from 16th to 21st December 2024.
- Prof. Nadeem Pasha, Assistant Professor, has successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program. The program, titled “Recent Trends in VLSI Design Using Nanotechnology”, was held at the Meerut Institute of Engineering and Technology from November 25 to November 30, 2024.


ATAL/2024/1732600901

Skill India

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mr. NADEEM PASHA, Assistant Professor of School of Engineering, Dayananda Sagar University has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on Crystal Growth, Semiconductor Processing and Manufacturing Technologies at Indian Institute of Technology (Indian School of Mines) Dhanbad from 16/12/2024 to 21/12/2024.

R Thangavel
Associate Professor Level (AICTE Institute), Coordinator
Indian Institute of Technology (Indian School of Mines) Dhanbad

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE


Skill India

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miet

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

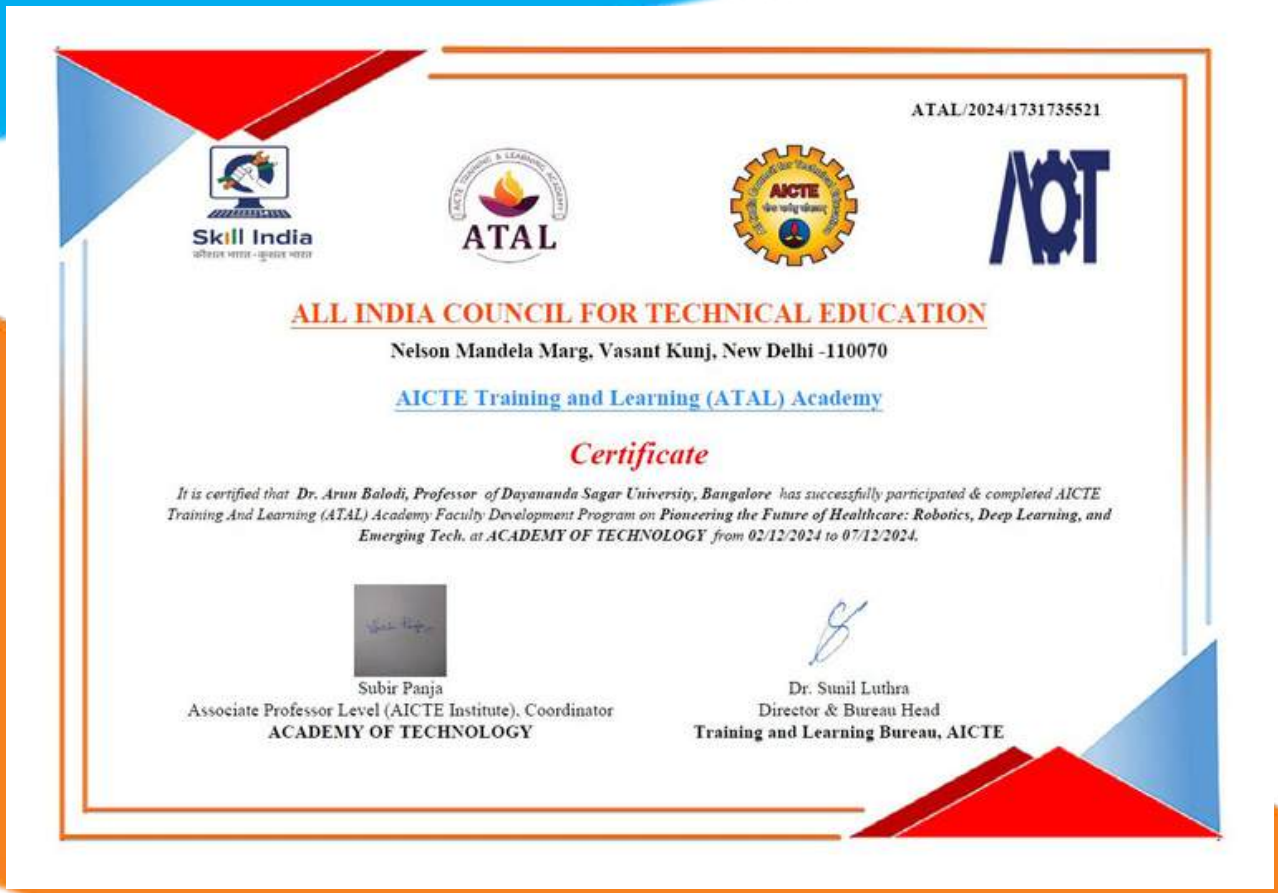
Certificate

RATNESHWAR KUMAR RATNESH
Associate Professor Level (AICTE Institute), Coordinator
MEERUT INSTITUTE OF ENGINEERING & TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Dr. Arun Balodi
Chairman & Professor
Department of ECE

- Dr. Arun Balodi, Chairperson and Professor, Department of Electronics and Communication Engineering at Dayananda Sagar University, Bangalore, successfully participated in the AICTE Training and Learning (ATAL) Academy Faculty Development Program titled “Pioneering the Future of Healthcare: Robotics, Deep Learning, and Emerging Technologies.” The program was held at the Academy of Technology from December 2 to December 7, 2024.



ATAL/2024/1731735521

Skill India

ATAL

AICTE

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Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Dr. Arun Balodi, Professor*** *of* ***Dayananda Sagar University, Bangalore*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Pioneering the Future of Healthcare: Robotics, Deep Learning, and Emerging Tech.*** *at* ***ACADEMY OF TECHNOLOGY*** *from 02/12/2024 to 07/12/2024.*

Subir Panja
Associate Professor Level (AICTE Institute). Coordinator
ACADEMY OF TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Prof. Puneeth S
Assistant Professor
Department of ECE

- Prof. Puneeth S, Assistant Professor at Dayananda Sagar University, has successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on Artificial Intelligence & IoT-Driven Data Analytics in Industry 5.0. The program was held at the School of Engineering & Technology, D Y Patil University, Ambi, Pune, from December 9 to December 14, 2024.

ATAL/2024/1733216978

Skill India

ATAL

AICTE

D Y PATIL UNIVERSITY School of Engineering & Technology

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

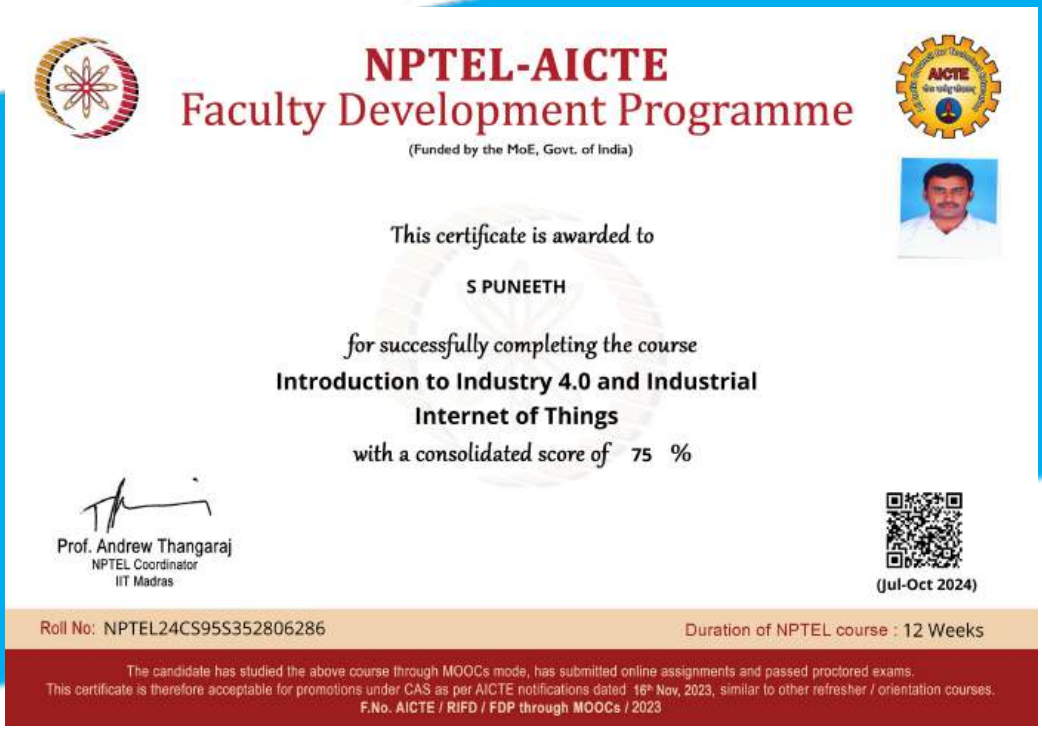
It is certified that ***Mr. PUNEETH S, Assistant Professor*** *of* ***Dayananda Sagar University*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Artificial Intelligence & IoT Driven Data Analytics in Industry 5.0*** *at* ***School of engineering & technology D Y Patil university Ambi, Pune*** *from* ***09/12/2024*** *to* ***14/12/2024.***

Pranav Gopal Charkha
Professor Level (AICTE Institute), Coordinator
School of engineering & technology D Y Patil university Ambi, Pune

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

- Mr. S. Puneeth has successfully completed the prestigious NPTEL course on "Introduction to Industry 4.0 and Industrial Internet of Things" with a consolidated score of 75%.

- Mr. S. Puneeth has successfully completed the prestigious NPTEL course on "Introduction to Industry 4.0 and Industrial Internet of Things" with a consolidated score of 75%.



NPTEL-AICTE
Faculty Development Programme
(Funded by the MoE, Govt. of India)

This certificate is awarded to

S PUNEETH

for successfully completing the course
Introduction to Industry 4.0 and Industrial Internet of Things
with a consolidated score of 75 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Oct 2024)

Roll No: NPTEL24CS95S352806286 Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

S PUNEETH

for successfully completing the course
Introduction to Industry 4.0 and Industrial Internet of Things
with a consolidated score of 75 %

Online Assignments	24.16/25	Proctored Exam	51/75

Total number of candidates certified in this course: 15725

Jul-Oct 2024
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS95S352806286 To verify the certificate No. of credits recommended: 3 or 4

Dr. Mukti Chaturvedi
Assistant Professor
Department of ECE

- Dr. Mukti Chaturvedi, Assistant Professor has successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on Digital Manufacturing of Personalized Implants in Welding-Based Additive Manufacturing and Automated Post Machining. This program was conducted by the Coimbatore Institute of Engineering and Technology from December 9 to December 14, 2024.

ATAL/2024/1733147098

Skill India

ATAL

AICTE

CIET

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Dr. Mukti Chaturvedi, Assistant Professor*** *of* ***Dayananda Sagar University*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Digital Manufacturing of Personalized Implants in Welding Based Additive Manufacturing and Automated Post Machining*** *at* ***COIMBATORE INSTITUTE OF ENGINEERING AND TECHNOLOGY*** *from* ***09/12/2024*** *to* ***14/12/2024.***

Sowrirajan M
Associate Professor Level (AICTE Institute), Coordinator
COIMBATORE INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Prof. Abhinav Karan
Assistant Professor
Department of ECE

- Prof. Abhinav Karan, Assistant Professor has successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on AI and Quantum Computing: The Future of Intelligent Systems. This advanced program was held at the Bharat Institute of Engineering and Technology from December 9 to December 14, 2024.

ATAL/2024/1733224665

Skill India

ATAL

AICTE

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Mr. Abhinav Karan, Assistant Professor*** *of* ***Dayananda Sagar University*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***AI and Quantum Computing: The Future of Intelligent System*** *at* ***BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY*** *from* ***09/12/2024*** *to* ***14/12/2024.***

Papiya Dutta
Professor Level (AICTE Institute), Coordinator
BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Dr. Pushpa Mala
Associate Professor
Department of ECE

- Dr. Pushpa Mala S, Chair of IEEE TEMS, Bangalore Chapter, participated as a Guest of Honor in the National Level Inter-Collegiate 24-Hour Hackathon AVINYA-2024, organized by the SJC Institute of Technology, Chikkaballapur.

Dr. Vinu R
Associate Professor
Department of ECE

- Dr. Vinu R, Associate Professor in the Department of Electronics and Communication Engineering has successfully completed the NPTEL Online Certification course on Microwave Engineering with an Elite Certification.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

DR VINU R

for successfully completing the course

Microwave Engineering

with a consolidated score of 64 %

Online Assignments	21.75/25	Proctored Exam	42/75

Total number of candidates certified in this course: 47

Jul-Oct 2024

(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

swayam

Roll No: NPTEL24EE115S652805687 To verify the certificate No. of credits recommended: 3 or 4

- Dr. Vinu R has recently published a significant research paper titled: “Optimized neural network for vulnerable plaque detection in OCT images with noise tolerance and adaptive coefficient zeroing”

Biomedical Signal Processing and Control

Optimized neural network for vulnerable plaque detection in OCT images with noise tolerance and adaptive coefficient zeroing

S. Perumal Sankar, R. Vinu, S. Sreelekshmi, N. Viswanath

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Highlights

- CVP-OCT-NTACZNN-PCBESA detects cardiovascular plaques using OCT imaging.
- Integrates Data-adaptive Gaussian Average Filtering for improved image quality.
- Employs NTACZNN neural network for precise plaque classification.
- Outperforms existing methods by up to 38.27% in accuracy.
- Promises earlier detection and improved treatment outcomes in cardiology.

Abstract

Background

Optical Coherence Tomography (OCT) was a non-invasive imaging method that provides higher-resolution images of biological tissues. OCT is used in cardiovascular medicine to identify Astheroclerosis plaques, which are a kind of plaque in blood arteries that represent a significant chance of rupture along with subsequent cardiovascular problems. By analyzing OCT images, healthcare professionals can identify specific features of atherosclerosis plaques, including thin fibrous caps, fatty cores, and micro-calcifications. This allows early identification of life-threatening risks and targeted treatments. Still, the analysis method is subject to miscalculations and high workload.

- Dr. Vinu R. Associate Professor, along with co-author Prof. Jisy N.K., Assistant Professor, presented a research paper titled “Artificial Intelligence-based Fast Billing System” at the 5th IEEE-sponsored International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024). The conference was organized by the T. John Institute of Technology, Bengaluru, and held on December 17-18, 2024.

IEEE T. JOHN INSTITUTE OF TECHNOLOGY ICICNIS SMC

5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS - 2024)

17-18, December 2024

Certificate of Presentation

This is to certify that

Vinu R

has successfully presented the paper entitled

Artificial Intelligence (AI) based Fast Billing System

at the

5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024) organised by T. John Institute of Technology, Bengaluru, India held on 17-18, December 2024.

Session Chair

Dr. Asha S Manek
Program Chair

Dr. P. Suresh Venugopal
Patron

Prof. V Sudharsan
Assistant Professor
Department of ECE

- Prof. V Sudharsan, Assistant Professor, has successfully completed the NPTEL Online Certification Course on Digital Circuits with an Elite Certification.

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

V SUDHARSAN

for successfully completing the course

Digital Circuits

with a consolidated score of 66 %

Online Assignments	23.97/25	Proctored Exam	42/75

Total number of candidates certified in this course: 3425

Jul-Oct 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24EE147S952801787 To verify the certificate No. of credits recommended: 3 or 4

Dr. Owais Ahmad Shah
Assistant Professor
Department of ECE

- Dr. Owais Ahmad Shah, Assistant Professor, presented a research paper titled “Predictive Modeling of Compressive Strength in Coconut Shell-Embedded Concrete Using Ensemble Regression Models” at the 2nd IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS-2024).

Centenary Celebrated Sharnbasveshwar Vidya Vardhak Sangha's

ಶರಣಬಸವ ವಿಶ್ವವಿದ್ಯಾಲಯ
SHARNBASVA UNIVERSITY

Kalaburagi – 585103, Karnataka - India
A State Private University approved by Govt. of Karnataka vide Notification No. ED 144 URC 2016 dated 29-07-2017,
Recognised by UGC under Section 2f vide No. F.8-29/2017 (CPP-I/PU), dated 20-12-2017 & AICTE, COA, PCI New Delhi

IEEE BANGALORE SECTION

Certificate of Appreciation

This is to certify that Dr./Prof./Mr./Ms

Owais Ahmad Shah

has Presented Paper entitled

Predictive Modeling of Compressive Strength in Coconut Shell-Embedded Concrete Using Ensemble Regression Models

for 2nd IEEE International Conference on
Integrated Intelligence and Communication Systems (ICIICS-2024)
organized by Sharnbasva University, Kalaburagi, 22-23 November, 2024

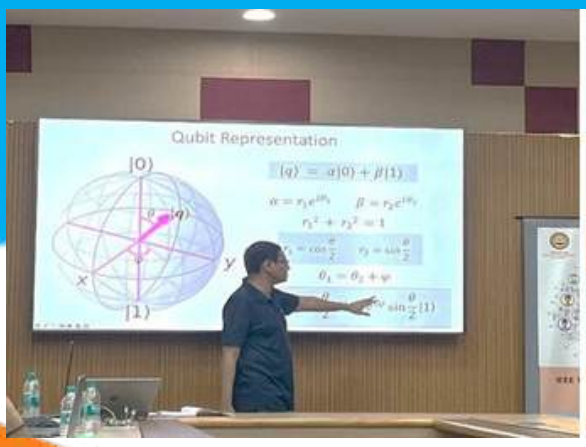
Dr. Lakshmi Patil Maka
Conference Chair and Convenor, ICIICS–2024
Dean, Sharnbasva University,
Kalaburagi.

Dr. Anilkumar G. Bidve
Vice-Chancellor,
Sharnbasva University,
Kalaburagi

Parama Poojya Dr. Sharnbaswappa Appaji
Chancellor,
Sharnbasva University,
Kalaburagi

Dr. B. M. Ashwin Desai
Associate Professor
Department of ECE

- Dr. B. M. Ashwin Desai (Associate Professor), Rakshith Prajwal R. S. (ENG21EC0093), and Sameer A. Nadaf (ENG21EC0102) attended the IEEE 18th International Conference on Industrial and Information Systems (ICIIS 2024) held at IIT Madras from December 21st to 23rd, 2024.



Dr. Divyashree H B
Assistant Professor
Department of ECE

- Dr. Divyashree H B presented her paper, “Improving the Efficiency of EMG-Based Prosthetic Arm Using EEG,” at the MP-TEAS 2024 International Conference, held at IES University, Bhopal, from 22nd to 24th November 2024.


IES UNIVERSITY®
BHOPAL
In Association with
Springer
Certificate of Paper Presentation /Participation
This is to certify that
Dr.Divyashree H B
has Participated in the Conference & Presented Paper entitled :-
""Improving the efficiency of EMG based prosthetic arm using EEG""
Springer
MP-TEAS
2024
International Conference on
Modern Practices and Trends in Expert Applications & Security
(MP-TEAS 2024)
22nd - 24th November 2024 | IES, Bhopal, INDIA
Prof. (Dr.) Nikhat Raza Kha..
PC Chair & Convenor, MP-TEAS 2024
Prof. (Dr.) Vijay Singh Rathore
PC Chair & Convenor, MP-TEAS 2024

Dr. Sneha Sharma
Assistant Professor
Department of ECE

- Dr. Sneha Sharma achieved a consolidated score of 86% in the FDP course conducted by IIT Madras, supported by the Ministry of Education, Government of India.
- Dr. Sneha Sharma also earned the Elite Certification in the same domain through the NPTEL Online Certification program conducted by IIT Guwahati.

NPTEL-AICTE
Faculty Development Programme
(Funded by the MoE, Govt. of India)

This certificate is awarded to

SNEHA SHARMA

for successfully completing the course

System Design Through Verilog

with a consolidated score of 86 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Sep 2024)

Roll No: NPTEL24EE94S332005595 Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

SNEHA SHARMA

for successfully completing the course

System Design Through Verilog

with a consolidated score of 86 %

Online Assignments	24.5/25	Proctored Exam	61.5/75

Total number of candidates certified in this course: 2329

Jul-Sep 2024
(8 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

swayam

Roll No: NPTEL24EE94S332005595 To verify the certificate No. of credits recommended: 2 or 3

Dr.Sudha D
Associate Professor
Department of CST

- Dr. Sudha reviewed the papers in the International Conference on Communication, Computing, and Industry 6.0 -2024 (C2I6-2024) in association with IEEE section Bangalore, organized by CMR Institute of Technology, Bengaluru on 6th and 7th December 2024.

CMRIT

25 Excellence

IEEE BANGALORE SECTION

CERTIFICATE OF APPRECIATION

This Certificate is Awarded to

Dr. D Sudha

Dayanand Sagar University

In recognition and appreciation of your valuable contribution as a Reviewer

in the 5th International Conference on Communication, Computing & Industry 6.0 - 2024 (C2I6-2024) in association with IEEE Bangalore Section, Organized by CMR Institute of Technology, Bengaluru
Date of the Event : 6th and 7th December, 2024

Dr. Kesavamoorthy R.
HOD, CSE
General Chair
CMRIT

Dr. Sanjay Jain
Principal
CMRIT

Dr. Santhosh Kumar J
Associate Professor
Department of CST

- Dr. Santosh Kumar J participated 5-day webinar titled "Beginner Workshop on KNIME" conducted by Webinar Park on December 2-6, 2024.

Webinar Park

CERTIFICATE OF COMPLETION

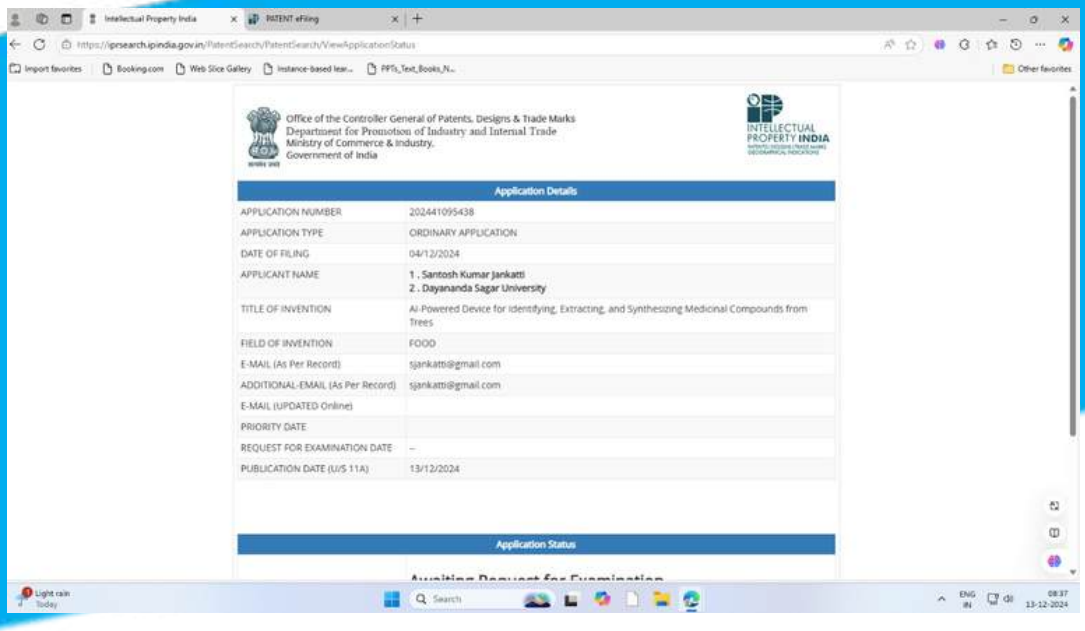
DR. SANTOSH KUMAR JANKATTI

has successfully completed the 5-day webinar
Beginner Workshop on KNIME
2 December 2024 - 6 December 2024

APOORVA HONNEGOWDA ROOPA
Founder, WebinarPark
Director, Neural Oasis AI Studios LLP

DR. A. M. RAMESH
CEO
Karnataka Science and Technology Academy

- Dr. Santosh Kumar J published a patent on "AI–Powered Device for Identifying, Extracting and Synthesizing Medicinal Compounds from Trees" (Application Number: 202441095438).



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

INTELLECTUAL PROPERTY INDIA

Application Details

APPLICATION NUMBER	202441095438
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/12/2024
APPLICANT NAME	1 . Santosh Kumar Jankatti 2 . Dayananda Sagar University
TITLE OF INVENTION	AI-Powered Device for Identifying, Extracting, and Synthesizing Medicinal Compounds from Trees
FIELD OF INVENTION	FOOD
E-MAIL (As Per Record)	sjankatti@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sjankatti@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/12/2024

Application Status

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

- Dr. Lakshmanan, Assistant Professor, Dept. of CSE (AI&ML) has been awarded the certificate for successfully presenting the paper entitled “Leveraging Blockchain for Secure and Efficient Crowdfunding: An Optimized Particle Swarm Approach” at the 9th International Conference on Communication and Electronics Systems (ICCES 2024) organized by PPG Institute of Technology, Coimbatore, India on 16-18, December 2024.

IEEE
XPLORE COMPLIANT ISBN
979-8-3503-7797-2

ICCES

Certificate of Presentation

This is to certify that

Lakshmanan M

has successfully presented the paper entitled

Leveraging Blockchain for Secure and Efficient Crowdfunding: An Optimized Particle Swarm Approach

at
9th International Conference on
Communication and Electronics Systems (ICCES 2024)
organised by PPG Institute of Technology,
Coimbatore, India on 16-18, December 2024.

Session Chair

Dr. V. Bindhu
Organizing Chair

Dr. Nandhakumar S
Principal

- Dr. LAKSHMANAN M, Assistant Professor, Dept. of CSE (AI&ML) has successfully participated in & completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on Exploring Emerging Technologies in Next-Gen Communication Networks at R.L. JALAPPA INSTITUTE OF TECHNOLOGY from 25/11/2024 to 30/11/2024.

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It is certified that Dr. LAKSHMANAN M, Assistant Professor of Dayananda Sagar University has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Exploring Emerging Technologies in Next-Gen Communication Networks at R.L.JALAPPA INSTITUTE OF TECHNOLOGY from 25/11/2024 to 30/11/2024.

Mrutyunjaya M S
Associate Professor Level (AICTE Institute), Coordinator
R.L.JALAPPA INSTITUTE OF TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

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

- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has awarded the certificate for the presentation of a paper titled “TRANSFORMATIVE EFFECTS OF ARTIFICIAL INTELLIGENCE ON WORKFORCE DYNAMICS IN INDUSTRY 4.0” at IEEE International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA-2024) 20-21, December 2024 Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India.

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IEEE 63345

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In recognition of a the presentation of paper titled
TRANSFORMATIVE EFFECTS OF ARTIFICIAL INTELLIGENCE ON WORKFORCE DYNAMICS IN INDUSTRY 4.0

at
IEEE International Conference onAugmented Reality, Intelligent Systems, and Industrial Automation (ARIIA-2024)
20-21, December, 2024
Manipal Institute of Technology, Manipal Academy Of Higher Education, Manipal, India

Dr. Amit Dwivedi	Dr. Princy Randhawa	Prof. Nithesh Naik	Dr. Arunachal Chandawar	Dr. Anil Rana
Convener, University of Warwick, UK	Convener, Manipal University Jaipur, India	Convener, MIT, Manipal, MAHE, India	HOD, Mechanical and Industrial Engineering, MIT, Manipal, MAHE, India	Director, MIT, Manipal, MAHE, India

MANIPAL ACADEMY of HIGHER EDUCATION

- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has awarded the certificate for the presentation of a paper titled “IMPACT OF ARTIFICIAL INTELLIGENCE ON THE DEVELOPMENT OF EMPLOYMENT AND THE LABOR MARKET” at IEEE International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA-2024) 20-21, December 2024 Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India.

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Manipal Institute of Technology, Manipal Academy Of Higher Education, Manipal, India

Dr. Amit Dwivedi	Dr. Princy Randhawa	Prof. Nithesh Naik	Dr. Arunachal Chandawar	Dr. Anil Rana
Convener, University of Warwick, UK	Convener, Manipal University Jaipur, India	Convener, MIT, Manipal, MAHE, India	HOD, Mechanical and Industrial Engineering, MIT, Manipal, MAHE, India	Director, MIT, Manipal, MAHE, India

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- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has awarded the certificate in recognition of distinguished support and expertise as a Reviewer in ensuring the success of The International Conference on Advancements in Artificial Intelligence and Machine Learning for Security (ICAAIMLS-2024), organized by the Center for Artificial Intelligence and Machine Learning, Institute for Technical Education and Research, Siksha 'O' Anusandhan (Deemed to be) University, Bhubaneswar, during 20 - 21 December 2024.


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Dayananda Sagar University, Banglore
In recognition of your distinguished support and expertise as a Reviewer in ensuring the success of
The International Conference on Advancements in Artificial Intelligence and Machine Learning for Security (ICAAIMLS 2024), organized by the Center for Artificial Intelligence and Machine Learning, Institute for Technical Education and Research, Siksha 'O' Anusandhan (Deemed to be) University, Bhubaneswar, during 20th - 21st December 2024.
PROGRAM CHAIR
PROGRAM CHAIR
GENERAL CHAIR

- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML) has awarded the certificate in recognition of distinguished support and expertise as a Session Chair in ensuring the success of The International Conference on Advancements in Artificial Intelligence and Machine Learning for Security (ICAAIMLS-2024), organized by the Center for Artificial Intelligence and Machine Learning, Institute for Technical Education and Research, Siksha 'O' Anusandhan (Deemed to be) University, Bhubaneswar, during 20 - 21 December 2024.


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PROGRAM CHAIR

PROGRAM CHAIR

GENERAL CHAIR

Dr. Vinutha N
Associate Professor
Department of CSE(AIML)

- Dr. Vinutha N, Associate Professor, Dept. of CSE (AI&ML), the paper titled “Attention-Enhanced Transfer Learning for Emphysema Classification Using CBAM-Augmented ResNet-50" has been accepted for presentation at the 6th International Conference on Recent Advances in Information Technology (RAIT) 2025, scheduled to be held on March 6-8, 2025 at Department of Computer Science and Engineering IIT ISM Dhanbad.

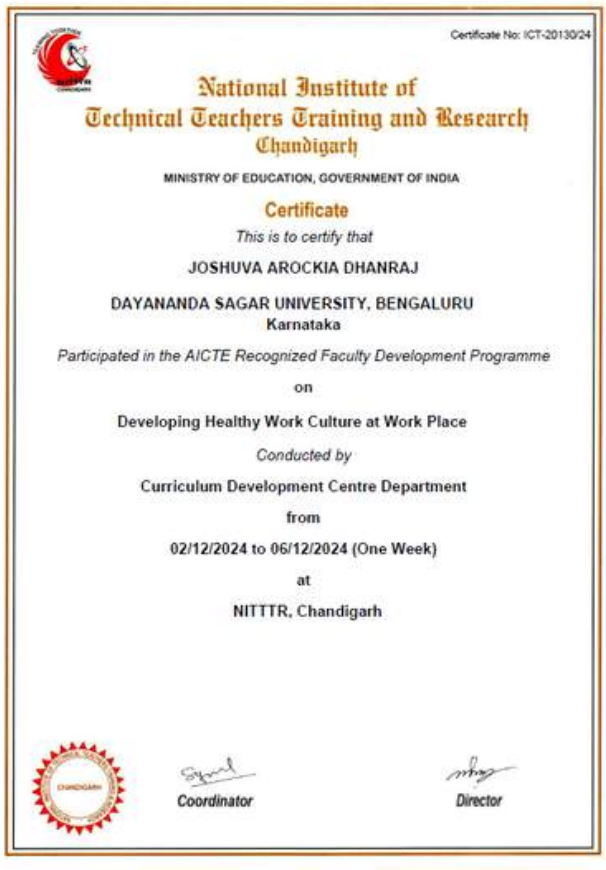
Dr. Vinutha N
Associate Professor
Department of CSE(AIML)

Prof. Pradeep Kumar K
Assistant Professor
Department of CSE(AIML)

- Dr. Vinutha N (Associate Professor), Pradeep Kumar K (Assistant Professor) Dept. of CSE (AI&ML), the paper titled “Augmenting Medical Diagnostics with AI: A Dual Approach Using RAG-Based Chatbots and Nano GPT Models" has been accepted for presentation at the 6th International Conference on Recent Advances in Information Technology.

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

- Dr. Joshuva Arockia Dhanraj, Associate Professor, Dept. of CSE (AI&ML) has published a paper in Sensor Review journal (Q3) paper entitled “Cameraless sensor fusion: developing a cost-effective driver assistance system using radar and ultrasonic sensor”.
- Dr. Joshuva Arockia Dhanraj, Associate Professor, Dept. of CSE (AI&ML) has participated in the AICTE Recognized Faculty Development Programme on “Developing Healthy Work Culture at Work Place” Conducted by the Curriculum Development Centre Department from 02/12/2024 to 06/12/2024 (One Week) at NITTTR, Chandigarh.



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Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

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JOSHUVA AROCKIA DHANRAJ

DAYANANDA SAGAR UNIVERSITY, BENGALURU
Karnataka

Participated in the AICTE Recognized Faculty Development Programme

on

Developing Healthy Work Culture at Work Place

Conducted by

Curriculum Development Centre Department

from

02/12/2024 to 06/12/2024 (One Week)

at

NITTTR, Chandigarh

Coordinator

Director

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

- Dr. Mude Nagarjuna Naik, Assistant Professor, Dept. of CSE (AI&ML) has awarded the certificate for the presentation of a paper titled “IMPACT OF ARTIFICIAL INTELLIGENCE ON THE DEVELOPMENT OF EMPLOYMENT AND THE LABOR MARKET” at IEEE International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA-2024) 20-21, December 2024 Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India.

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NAGARJUNA NAIK MUDE

In recognition of a the presentation of paper titled

IMPACT OF ARTIFICIAL INTELLIGENCE ON THE DEVELOPMENT OF EMPLOYMENT AND THE LABOR MARKET

at

IEEE International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA-2024)

20-21, December, 2024

Manipal Institute of Technology, Manipal Academy Of Higher Education, Manipal, India

Dr. Amit Dwivedi	Dr. Princy Randhawa	Prof. Nithesh Naik	Dr. Arunachal Chandawar	Dr. Anil Rana
Convener University of Warwick UK	Convener Manipal University Jaipur India	Convener MIT, Manipal, MAHE India	HOD, Mechanical and Industrial Engineering, MIT, Manipal, MAHE India	Director MIT, Manipal, MAHE India

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STUDENT ACHIEVEMENTS

“Triumphant Win at Smart India Hackathon 2024”

- The students of team “Shamsheer” from Dayananda Sagar University have brought immense pride by emerging as winners of the prestigious Smart India Hackathon (SIH) 2024 Grand Finale at Sri Krishna College of Engineering and Technology (SKCET), Coimbatore, this 36-hour non-stop hackathon tested the creativity, technical expertise, and perseverance of participants from across the country. Competing with some of the nation’s best talent, the team delivered an innovative and impactful solution for problem statement SIH1626, aimed at transforming healthcare data management and information management operations.

  Team Shamsheer consisted of Mr. Rohan Jaiswal (Team Lead) (ENG22CS0578), Mr. Utkarsh Priya (ENG22CS0602), Mr. Ritwik Vasundh (ENG22AM0125), Ms. Rashi Baidya (ENG22CS0406), Ms. Chinmayi Palled (ENG22CS0280), and Ms. Jiya Patel (ENG22CS0387), 5th Semester CSE Students as team Shamsheer mentored by Dr. Bipin Kumar Rai, professor, department of CSE and Mr. Tarun Agarwal, Sde 2 / tech lead.

  This victory is a testament to the innovative spirit, adaptability, and resilience. The college proudly congratulates the team members and their mentors for this outstanding achievement. Their success highlights the strength of our academic ecosystem and inspires the next generation of innovators to aim high and achieve excellence.


Prime Minister


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- The final-year students from the Aerospace Engineering Department, Mr. Maruthi Reedy (ENG21AS0023) and Mr. Amshu Arun (ENG21AS0008), actively participated in a webinar titled eVTOL Mobility & The Digital Era: Are You Ready for Liftoff? organized by Dassault Systems 3D Excite on 4th December 2024.

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- The final-year students from the Department of Aerospace Engineering, Mr. K. Raghav (ENG21AS0016) and Mr. Yashas V. (ENG21AS0051) of Dayananda Sagar University, participated in and presented conference papers titled “Air Quality Testing and Validation Using Drone Technology” and “Design, Integration, and Simulation of a Model Rocket System for CanSat Deployment” at the International Conference on Advances in Aerospace Technologies held at SRM Institute of Science and Technology on 4th and 5th December 2024, under the guidance of Prof. Sripad Kulkarni S..


SRM Institute of Science and Technology
Kattankulathur -603 203 , Chengalpattu District, Tamil Nadu, India
Department of Aerospace Engineering

ICAAsT 2024

International Conference on Advances in Aerospace Technologies

Certificate of Participation

This certificate is presented to **Dr./Mr./Ms. K Raghav, Dayananda Sagar University, Bengaluru** for authoring a technical paper titled **Design, Integration, and Flight Testing of a Model Rocket System for CanSat Deployment** in the International Conference on Advances in Aerospace Technologies (ICAAsT 2024) organized by the Department of Aerospace Engineering, SRM Institute of Science and Technology, Kattankulathur - 603203, Tamil Nadu from 4th to 6th December 2024.

Dr. G. Saravanan, Co-Convenor / Aerospace, SRM IST, KTR
Dr. T. Selvakumaran, Co-Convenor / Aerospace, SRM IST, KTR
Dr. S. Sivakumar, Co-Convenor / Aerospace, SRM IST, KTR
Dr. S. Senthilkumar, Co-Convenor / Aerospace, SRM IST, KTR
Dr. L. R. Ganapathy Subramanian, Convenor / Professor & Head Aerospace, SRM IST, KTR


SRM Institute of Science and Technology
Kattankulathur -603 203 , Chengalpattu District, Tamil Nadu, India
Department of Aerospace Engineering

ICAAsT 2024

International Conference on Advances in Aerospace Technologies

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This certificate is presented to **Dr./Mr./Ms. Yashas V, Dayananda Sagar University, Bengaluru** for authoring a technical paper titled **Design, Integration, and Flight Testing of a Model Rocket System for CanSat Deployment** in the International Conference on Advances in Aerospace Technologies (ICAAsT 2024) organized by the Department of Aerospace Engineering, SRM Institute of Science and Technology, Kattankulathur - 603203, Tamil Nadu from 4th to 6th December 2024.

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Dr. S. Sivakumar, Co-Convenor / Aerospace, SRM IST, KTR
Dr. S. Senthilkumar, Co-Convenor / Aerospace, SRM IST, KTR
Dr. L. R. Ganapathy Subramanian, Convenor / Professor & Head Aerospace, SRM IST, KTR

- The III-year students Ms. Pragathi (ENG23AS0031), Ms. Prananya (ENG23AS0011), and Ms. Ridima Jain (ENG21AS0014) from the Department of Aerospace Engineering at Dayananda Sagar University actively participated in the TiE Global Summit held in Bangalore from 9th to 11th December 2024, where they presented their innovative ideas.

- On 14th December 2024, Mr. Panani Purushottam Pandey (ENG21AS0030), a final-year student from the Department of Aerospace Engineering at Dayananda Sagar University, presented a paper titled An Improved Nonlinear Damping Model for Supersonic Air-Intake Buzz and Control Using Surrogate-Model Concept at the 10th Symposium on Applied Aerodynamics & Design of Aerospace Vehicles (SAROD 24). The presentation was made under the guidance of Dr. Suryanarayana G.K., Professor in the Department of Aerospace Engineering, DSU.

- Mr. Ronada Sakalesha (ENG23CS0165), a 3rd-semester CSE Student, successfully participated in the BuildIt Workshop and the 6-Hour Hackathon BuildIt organized by the Department of CSE, Dayananda Sagar University, on 25 November 2024.


DAYANANDA SAGAR UNIVERSITY
School of Engineering
Department of Computer Science and Engineering

E - CERTIFICATE

-OF HACKATHON PARTICIPATION-

Proudly presented to

RONADA SAKALESHA

For participating in the **6-Hour Hackathon Buildit** organized by the Dayananda Sagar University on **27th November 2024**

Dr. Gousia Thahniyatha — Dr. Meenakshi Malhotra — Dr. Girisha G S — Dr. Udaya Kumar Reddy K R


DAYANANDA SAGAR UNIVERSITY
School of Engineering
Department of Computer Science and Engineering

E - CERTIFICATE

-OF BUILDIT WORKSHOP PARTICIPATION-

Proudly presented to

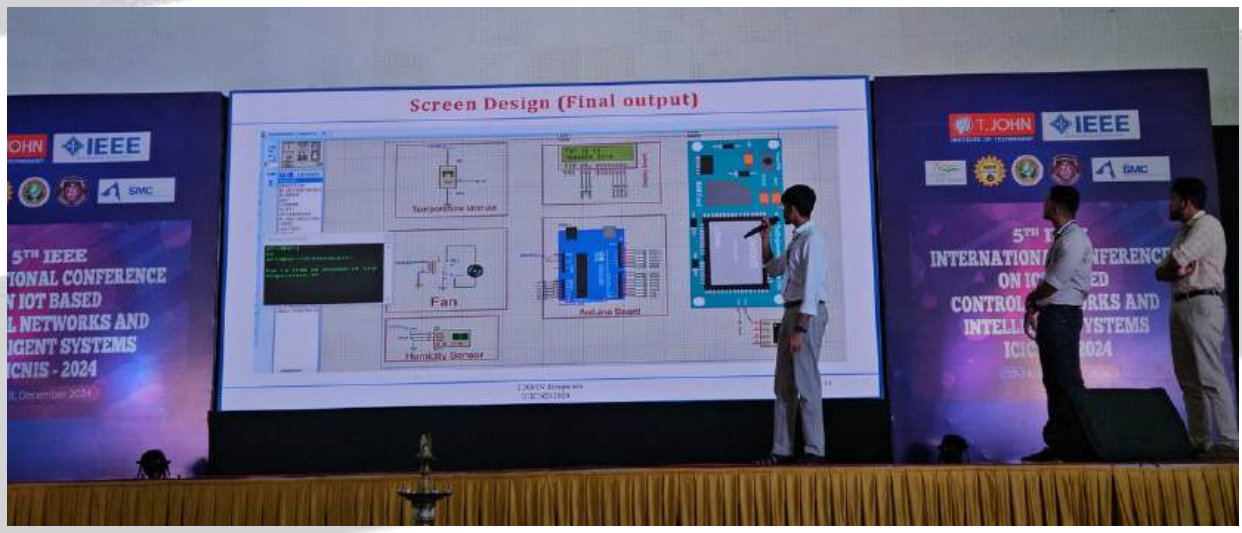
RONADA SAKALESHA

For participating in the **Buildit Workshop** organized by the Dayananda Sagar University on **25th November 2024**

Dr. Gousia Thahniyatha — Dr. Meenakshi Malhotra — Dr. Girisha G S — Dr. Udaya Kumar Reddy K R

- Mr. Sameer S Katte (ENG22CS0148), Mr. Saikumar V Jadhav (ENG22CS0145), Mr. Sriram Ravindra (ENG22CS0185), Ms. Samrdhe (ENG22CY0022) and Mr. Sai Shravan V (ENG22CS0144), 5th Semester CSE Students as team Participated and received runner ups by winning cash prize of 20K in the National Level HackElite '24 event conducted by JSS, Mysore during 14th December 2024.

- Mr. Prajwal B R (ENG22CS0121), Mr. Navtej S (ENG22CS0109), Mr. Nithin P Hegde (ENG22CS0113), Mr. Pavankumar P S (ENG22CS0117) and Mr. Pratham U K (ENG22CS0123), 5th semester CSE Students, under the guidance of Prof. Mala B A, Assistant Professor presented a paper titled “Smart Cradle: A Secured Assistance and Monitoring system for baby using IoT” in the IEEE 5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS-2024) organized by T. John Institute of Technology, Bengaluru, Karnataka on 17th December 2024.

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ON IOT BASED CONTROL NETWORKS
AND INTELLIGENT SYSTEMS


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IOT BASED CONTROL


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5th International Conference on IoT Based Control Networks and Intelligent Systems
(ICICNIS - 2024)
17-18, December 2024
Certificate of Presentation
This is to certify that
Prajwal B R
has successfully presented the paper entitled
Smart Cradle: A Secured Assistance and Monitoring System for Baby using IoT
at the
5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024)
organised by T. John Institute of Technology, Bengaluru, India held on 17-18, December 2024.
Session Chair
Dr. Asha S Manek
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17-18, December 2024
Certificate of Presentation
This is to certify that
Nithin P Hegde
has successfully presented the paper entitled
Smart Cradle: A Secured Assistance and Monitoring System for Baby using IoT
at the
5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024)
organised by T. John Institute of Technology, Bengaluru, India held on 17-18, December 2024.
Session Chair
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17-18, December 2024
Certificate of Presentation
This is to certify that
Pratham U K
has successfully presented the paper entitled
Smart Cradle: A Secured Assistance and Monitoring System for Baby using IoT
at the
5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024)
organised by T. John Institute of Technology, Bengaluru, India held on 17-18, December 2024.
Session Chair
Dr. Asha S Manek
Program Chair
Dr. P. Suresh Venugopal
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5th International Conference on IoT Based Control Networks and Intelligent Systems
(ICICNIS - 2024)
17-18, December 2024
Certificate of Presentation
This is to certify that
Mala B A
has successfully presented the paper entitled
Smart Cradle: A Secured Assistance and Monitoring System for Baby using IoT
at the
5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024)
organised by T. John Institute of Technology, Bengaluru, India held on 17-18, December 2024.
Session Chair
Dr. Asha S Manek
Program Chair
Dr. P. Suresh Venugopal
Patron

- Mr. Jayesh Ranjan (ENG23CS0326), 3rd semester CSE Student and Student President, E-CELL, won A Notable Innovation Award of ₹40,000 cash prize at INNOTECH IDEATHON 2024, held by DERBI Foundation & SINE IIT Bombay on Dec 20-21, 2024.

- Mr. Kishan. G. A (ENG23CY0020) has successfully completed Cyber Security Assessment: CompTIA Security + & CYSA+ an online non-credit course authorized by IBM and offered through Coursera.


IBM

COURSE CERTIFICATE

Apr 23, 2023

Kishan G A

has successfully completed

Cybersecurity Assessment: CompTIA Security+ & CYSA+

an online non-credit course authorized by IBM and offered through Coursera

Manish Kumar
Dee Dee Collette
IBM Skills Network Team

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Verify at:
https://coursera.org/verify/TFU2KPPU39EV
Coursera has confirmed the identity of this individual and their participation in the course.

- Mr. Bansidharee Maji (ENG22CY0006) and Mr. Srihari K B (ENG21CY0043) accompanied by Dr. Durbadal Chattaraj attended the 31st IEEE International Conference on High-Performance Computing, Data, and Analytics, four days conference held from 18.12.2024 to 21.12.2024 at the Radisson Blu, Marathahalli, Bengaluru. Continuing its legacy, HiPC 2024 brought together a global community of researchers, academicians, and industry experts to discuss advancements in high-performance computing (HPC), data science, and analytics. The conference featured workshops, keynote sessions, technical paper presentations, poster sessions, and networking opportunities.

- Mr. Nikhil Kumar (ENG22EC0100), Mr. Krishna Idnani (ENG22CS0083), Ms. Jyoti Shree (ENG22CT0008), Mr. Janardhan K S (ENG22DS0004), Mr. Sujeeth Kumar (ENG22DS0019), and Mr. Om Singh (ENG23DS1013) along with Mentor Prof. Manjula participated in SIH 2024.

- Ms. S Nandini (ENG21DS0034), got admission into the Master of Science (Data and Computational Science) at University College Dublin, Ireland.

- Mr. Pranjal Mewara (ENG21DS0026) - got an offer from Amazon as a Business Intel Eng-Intern with a stipend of 70,000 Rs per month.

- Mr. Nitin Prajwal R (ENG22DS0039) has been officially selected as the STUDENT LEAD of GOOGLE Developer Groups.

- Mr. Thejas Gowda T S for successfully completing the course Math & Optimizations: Introducing Sets & Set Operations on December 13, 2024, at Infosys Springboard.


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- Ms. Niharika R (ENG21CT0028) of 7th semester CST got selected in ZScalar Campus Placement Drive organized by Department of Training and Placement on 03rd December 2024

- Mr. Ahmed Isa (ENG22CT0039), Ms. Nancy (ENG22CT0043), and Mr. Satyam (ENG23CT1002) participated in the TGS Profile.in TIE Summit 2024 and secured the 4th runner-up position.

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