Volume-3 Issue-10

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SCHOOL OF ENGINEERING

SOE-BULLETIN

The Official Newsletter of **School of Engineering**

OCTOBER 2025

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SCHOOL OF ENGINEERING

Vision

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

Mission

1. Design and deliver contemporary engineering curricula to address regional and global needs while emphasizing ethics, values, integrity and regional relevance.
2. Carryout high impact academic research, industry projects and innovation activities with active student engagement to advance science and engineering knowledge and state-of-the-art industry practices.
3. Develop regional and national leaders to advance the society and economy.

INDEX

SCHOOL OF
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INTERNATIONAL ACTIVITIES

Session on “Innovating and Discovering: Research in Science and Engineering”

The Department of Mechanical Engineering, School of Engineering, Dayananda Sagar University, hosted an enlightening interactive session titled “Innovating and Discovering: Research in Science and Engineering” featuring Dr. Kevin Truman, Dean of Engineering, University of Missouri–Kansas City (UMKC). The session, held on October 29, 2025, at A-405, Engineering Block, brought together faculty members, research scholars, and students for a thought-provoking discussion on innovation, global research collaboration, and the future of engineering education. Dr. Truman shared valuable insights into the evolving landscape of engineering research, emphasizing the integration of interdisciplinary collaboration, sustainability, and technological adaptability in solving real-world problems. He highlighted the growing importance of AI-driven design, advanced manufacturing, and international academic partnerships in shaping the next generation of engineers. The event served as an inspiring platform for DSU faculty and students to engage with an eminent international academic leader, encouraging cross-institutional dialogue and fostering a culture of research-led innovation. The session was coordinated by Dr. Saravanbavan, Chairman of the Department of Mechanical Engineering, and Mr. Abhijith N, Assistant Professor – Mechanical Engineering. Their efforts ensured the smooth execution of this impactful knowledge exchange program.

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WORKSHOPS / SKILL DEVELOPMENT PROGRAMS

Workshop on “Exploring Quantum Computing for Next-Generation Machine Learning”

The Department of Computer Science and Technology organized a One-Day Hands-on Workshop on “Exploring Quantum Computing for Next-Generation Machine Learning” on 24th October 2025 at LH–1, from 9:00 AM to 1:00 PM. The session aimed for 5th-semester students of all CSE clusters of the School of Engineering to introduce students to the emerging interdisciplinary field of Quantum Computing and its applications in Machine Learning, bridging the gap between theoretical concepts and real-world implementation. The resource person, Mr. Karthiganesh Durai, Founder & CEO, KwantumG Research Labs Pvt. Ltd., Bengaluru, and Co-founder, Quantum Computing India, delivered an insightful session that began with an overview of quantum principles such as superposition and entanglement, and how they contribute to the exponential power of quantum computation. Students gained a conceptual understanding of how Quantum Machine Learning (QML) differs from classical ML paradigms and how quantum circuits are used to process and encode data. The session included live demonstrations and hands-on exercises where participants explored basic quantum algorithms using tools such as Qiskit, pennaylane. The workshop encouraged students to explore research and career opportunities in the rapidly evolving domain of Quantum Computing and its role in shaping next-generation intelligent systems.


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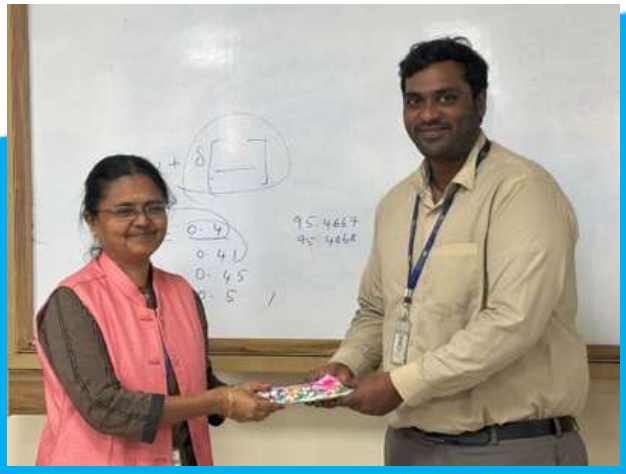
Google

Hands-on Workshop and Expert Talk Series on “NLP, LLM Engineering, Prompt Engineering, and Agentic AI”

The Department of Artificial Intelligence and Robotics Engineering, School of Engineering, Dayananda Sagar University, organized a Hands-on Workshop and Expert Talk Series on Natural Language Processing (NLP), Large Language Model (LLM) Engineering, Prompt Engineering, and Agentic AI on Saturday, October 25, 2025, at Room A-406 (Lab). The event featured distinguished speakers — Dr. Natarajan Venkateswaran (Professor, Computer Science and Engineering), Dr. Poongodi T. (Chairperson, Artificial Intelligence and Data Science), Dr. D. Sumathi (Professor, Cybersecurity), and Dr. Pramod Kumar Naik (Chairperson, Artificial Intelligence and Robotics). Each expert delivered in-depth sessions highlighting emerging trends and research applications in Generative AI, intelligent automation, and modern AI architectures. The program aimed to enhance students’ understanding of AI model engineering, prompt design, and agentic systems, bridging the gap between theoretical foundations and practical AI deployment. Faculty coordinators Dr. Gangadhar T. G., Dr. Rupam Bhaduri, Dr. Bharath Kumar S., Prof. Lalit Ashutosh, and Prof. Vikas Vishwakarma, along with Dr. Udaya Kumar Reddy K. R. (Dean, SOE), ensured the event’s success through meticulous planning and academic guidance.

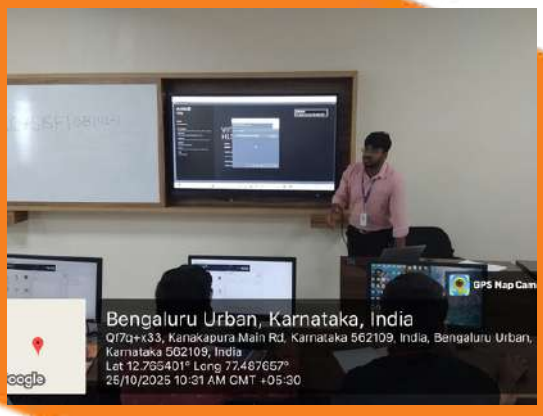


Hands-on Workshop on “Data Structures and Algorithms”

The Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, in association with the Electroblitz Club and GeeksforGeeks, organized a hands-on workshop on “Data Structures and Algorithms (DSA)” on October 16, 2025. Led by Mr. Soumyadeep Ghosh, Technical Mentor at GeeksforGeeks, the session focused on strengthening students’ programming fundamentals and problem-solving skills through live coding and interactive exercises. Key topics such as arrays, linked lists, stacks, queues, recursion, sorting, searching, and complexity analysis were covered in a clear and structured manner, helping students grasp complex algorithmic concepts with ease. The workshop also emphasized the importance of DSA in technical interviews, software development, and competitive programming, motivating participants to continue practicing and improving their skills. The session concluded positively, offering valuable hands-on experience and reinforcing the department’s commitment to nurturing industry-ready engineering graduates.

Workshop on “FPGA as Digital Signal Processing Using Vivado HLS”

The Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, organized a one-day workshop titled “FPGA as Digital Signal Processing Using Vivado HLS” on October 25, 2025. The workshop aimed to equip participants with a strong foundation in High-Level Synthesis (HLS) and its applications in FPGA-based Digital Signal Processing (DSP). Sessions covered the fundamentals of FPGA architecture, modeling DSP algorithms such as filtering and FFT using C/C++, and mapping them to FPGA hardware for real-time processing. Through interactive lectures and live demonstrations, participants learned to develop, verify, and optimize DSP systems using Vivado HLS, enabling rapid hardware prototyping. The program emphasized practical learning through hands-on sessions, allowing students to understand toolchain workflows, debugging methods, and performance optimization techniques. The workshop outcomes included enhanced proficiency in FPGA design, improved understanding of DSP implementation, and alignment with DSU’s mission of fostering innovation and technical excellence in engineering education.



One Day Workshop on “Engineer’s Edge – Hacking Imposter Syndrome”

The Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, organized an experiential session titled “Engineer’s Edge: Hacking Imposter Syndrome” on October 17, 2025. The event began with a welcome address by Dr. Girisha G. S, Chairperson of CSE, who emphasized the importance of confidence and self-belief in engineering education. The session was conducted by Dr. Sivananda Reddy, Certified Professional Coach (ICF–PCC), Corporate Wellness Expert, and Student Success Strategist, along with Dr. S.V.K.R. Rajeswari, Life Coach and Motivational Speaker. Dr. Reddy guided students in understanding and overcoming imposter syndrome through reflective tools and the NLP-based “Confidence Anchor” technique during an activity titled “Code Your Confidence.” The interactive and inspiring workshop helped students develop self-awareness, resilience, and a growth mindset, receiving enthusiastic appreciation for its practical insights and engaging approach.

Three-Day MATLAB Workshop on “Image Processing and Computer Vision Applications By MathWorks in Association with CoreEL”

The Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, organized a three-day hands-on workshop on the MATLAB platform from October 17 to 19, 2025, conducted by an industry expert from MathWorks. The workshop covered both fundamental and advanced MATLAB applications in digital image processing and machine learning through four interactive sessions. Session 1 introduced the MATLAB environment and basic image handling; Session 2 focused on core image preprocessing techniques and color space conversions; Session 3 explored applying machine learning models for object detection; and Session 4 guided participants in building, training, and evaluating a Convolutional Neural Network (CNN) for multi-class image classification. The workshop proved highly valuable, equipping participants with practical skills, hands-on experience, and deep insights for future technical and research projects.

Workshop on “Gemini Masterclass”

The Department of Computer Science and Technology organized a Google Gemini Workshop on 24th October 2025 in Room A327. The session was conducted from 1:30 PM to 3:00 PM exclusively for second-year CST students. The workshop aimed to introduce students to Google’s advanced AI model, Gemini, and its practical applications in computing and cybersecurity. The resource person demonstrated various features of Gemini, including text generation, coding assistance, and data analysis. Students actively participated and explored real-time use cases through interactive demos. The session enhanced their understanding of generative AI tools and their relevance in modern technology. Faculty members appreciated the students’ enthusiasm and engagement throughout the session. The event concluded with a Q&A session and positive feedback from participants. Overall, the workshop provided valuable insights into emerging AI technologies.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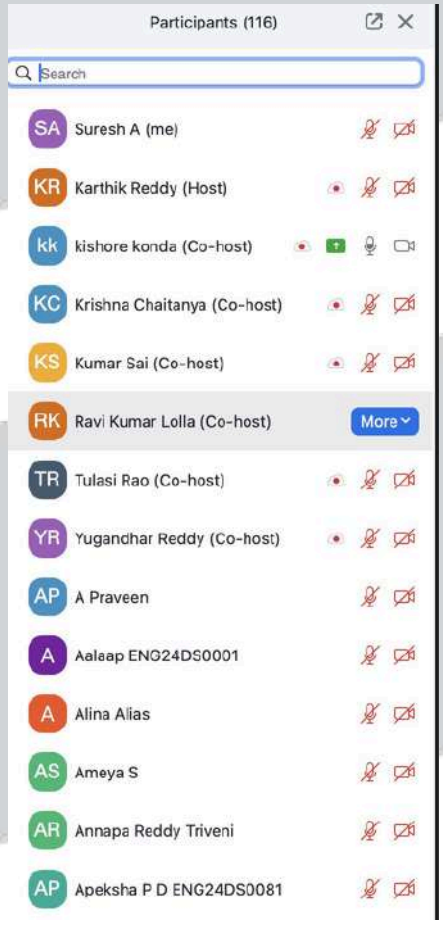
WEBINARS / SEMINARS / TECHNICAL TALKS

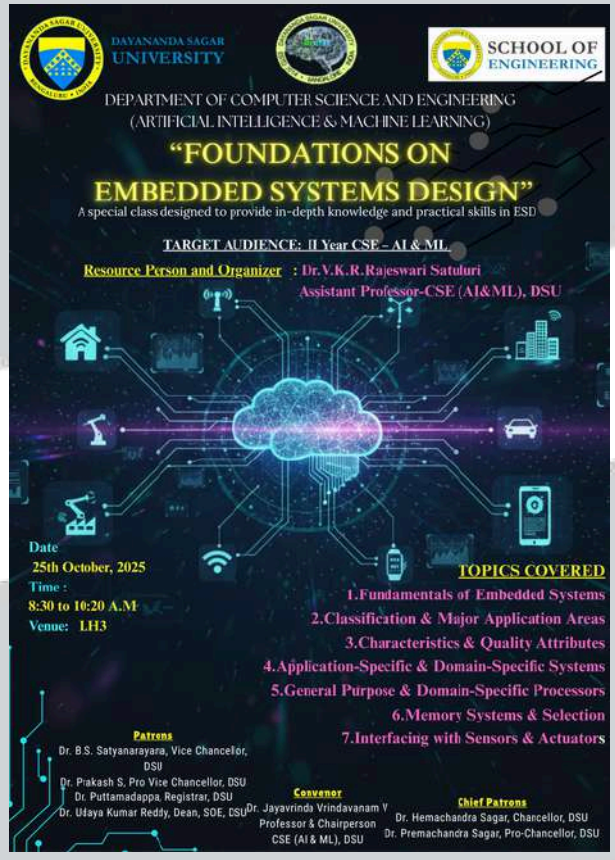
“AI Career Readiness – Skills That Get You Hired”

The Department of Computer Science and Engineering (Data Science), School of Engineering, Dayananda Sagar University, in collaboration with NexusIQ Solutions LLP, Hyderabad, organized a live career-oriented webinar titled “AI Career Readiness – Skills That Get You Hired” on October 11, 2025, at 11:00 AM. The session, led by Mr. Akash Saxena, Senior Industry Mentor at NexusIQ, aimed to guide students in understanding the evolving AI landscape and preparing for industry demands. It covered emerging roles such as AI Engineer, Machine Learning Developer, and Data Scientist. The webinar also emphasized the importance of certifications, online portfolios, and effective LinkedIn and GitHub profiles. Students actively engaged in the live Q&A, gaining insights into real-world hiring expectations, while faculty identified opportunities to align curriculum with industry needs. The event concluded with an introduction to the NexusIQ AI Career Accelerator Program, offering mentorship and project-based learning, and was widely appreciated for effectively bridging the gap between academics and AI career readiness.



“Foundations on Embedded Systems Design”

The Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), SOE, organized a special class, “Foundations on Embedded Systems Design”, on 25th October, 2025. The session was organized and delivered by Dr. V.K.R.Rajeswari Satuluri, Assistant Professor, CSE (AI&ML). The class, held in LH3, was specifically designed for and attended by II Year CSE - AI & ML students. The event focused on providing students with in-depth knowledge and practical skills in Embedded Systems Design (ESD). The session covered a comprehensive range of topics, including the fundamentals of embedded systems, their classification and major application areas, characteristics and quality attributes, and application-specific processors. The class also detailed general-purpose and domain-specific processors, memory systems, and selection, and concluded with the principles of interfacing with sensors and actuators. The initiative successfully provided students with a strong foundational understanding of embedded systems, enhancing their core engineering knowledge for future applications.



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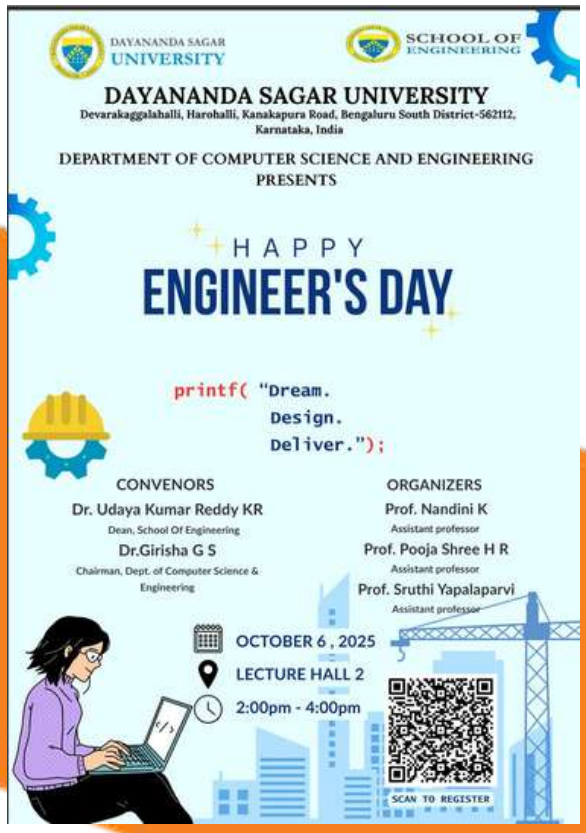
EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES

“HackVerse’25”

The IEEE Information Theory Society Student Branch, Dayananda Sagar University, organized HackVerse’25, a one-day technical hackathon on October 13, 2025, at the School of Engineering, Department of CSE (Data Science), as part of the IEEE Day celebrations. The event celebrated innovation, technology, and collaboration, providing students with a platform to design impactful solutions to real-world challenges across five domains — AI/ML, FinTech, HealthCare, EduTech, and CyberSecurity. Teams showcased creativity, technical expertise, and teamwork through idea presentations and prototype development. Special guests Ms. Roobini Ganesan (IEEE Bengaluru Chapter) and Dr. Arun Balodi (Chairperson, Dept. of ECE, DSU) inspired participants with insights on research and innovation. After multiple evaluation rounds, Team Astros emerged as the winner, followed by Team HealthCore and Team SkillSpark. The event concluded with a felicitation ceremony, marking HackVerse’25 as a vibrant celebration of creativity, collaboration, and IEEE’s spirit of technological excellence.

“Engineer’s day”

The Department of Computer Science & Engineering, SoE, Dayananda Sagar University, organized Engineer’s Day held on 06 October 2025. The Engineers’ Day 2025 celebration commenced with a warm welcome by the student hosts, who introduced the significance of the day and highlighted the vital role of engineers in shaping society. The event began with an insightful presentation where students showcased a glimpse of ancient engineering wonders of India, emphasizing the country’s rich legacy of innovation and craftsmanship. The occasion was graced by Dr. Girisha G S, Chairperson, Department of CSE, and Dr. Basavaraj N. Hiremath, Professor, CSE, who addressed the gathering with inspiring speeches. A special segment featured a video byte presentation from faculty members across the department, where professors extended their heartfelt wishes for Happy Engineers’ Day and shared their personal experiences and insights from their professional journeys, motivating students to pursue excellence in their fields. Following the formal session, a series of fun games and interactive activities such as Technical Dumb Charades, Pictionary, and Logo Guessing were organized to engage and entertain the students, promoting teamwork, creativity. Both students and faculty members participated enthusiastically, making the event lively. The event concluded with a vote of thanks, expressing gratitude to the faculty, students, and organizers for making the celebration a memorable and inspiring experience.




ENGINEER'S DAY


DUMB
CHARADES

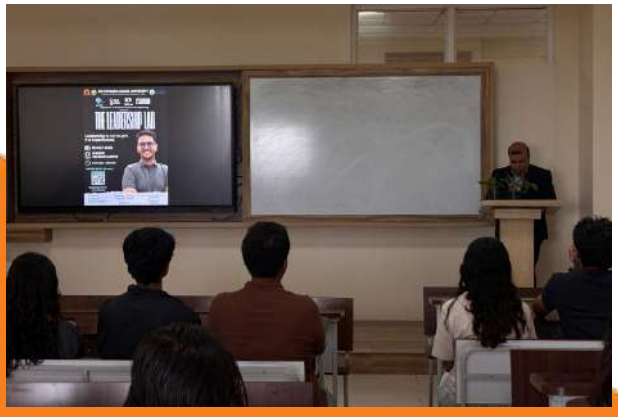
“The Leadership Lab: Leadership is not Taught”

DSU-ACM and the Career club of the Department of Computer Science & Engineering, SoE, Dayananda Sagar University organized “The Leadership Lab: Leadership is not Taught” held on 16 October 2025 event organized under the ACM club and the Career club. KD’s Garage is a leadership and identity lab, not a lecture, but an immersion. Every activity feels like a challenge or a game, but each one carries a hidden story about trust, ego, chaos, or identity. Students don’t just learn leadership; they experience it. The goal is simple: Discover personal strengths and blind spots in real time. The Leadership Lab was an activity-based event, and the resource person had asked a maximum of 30 participants. A total of 28 students registered, and 26 participated in the event. Students were grouped into 5 teams with 5-6 Students each time. There were a total of 4 activities. The first activity was experiencing the leadership in total. The second activity addressed the leadership in a chaotic situation, where the group was given a situation and the team had to work through it.


THE LEADERSHIP LAB


THE LEADERSHIP LAB


THE LEADERSHIP LAB

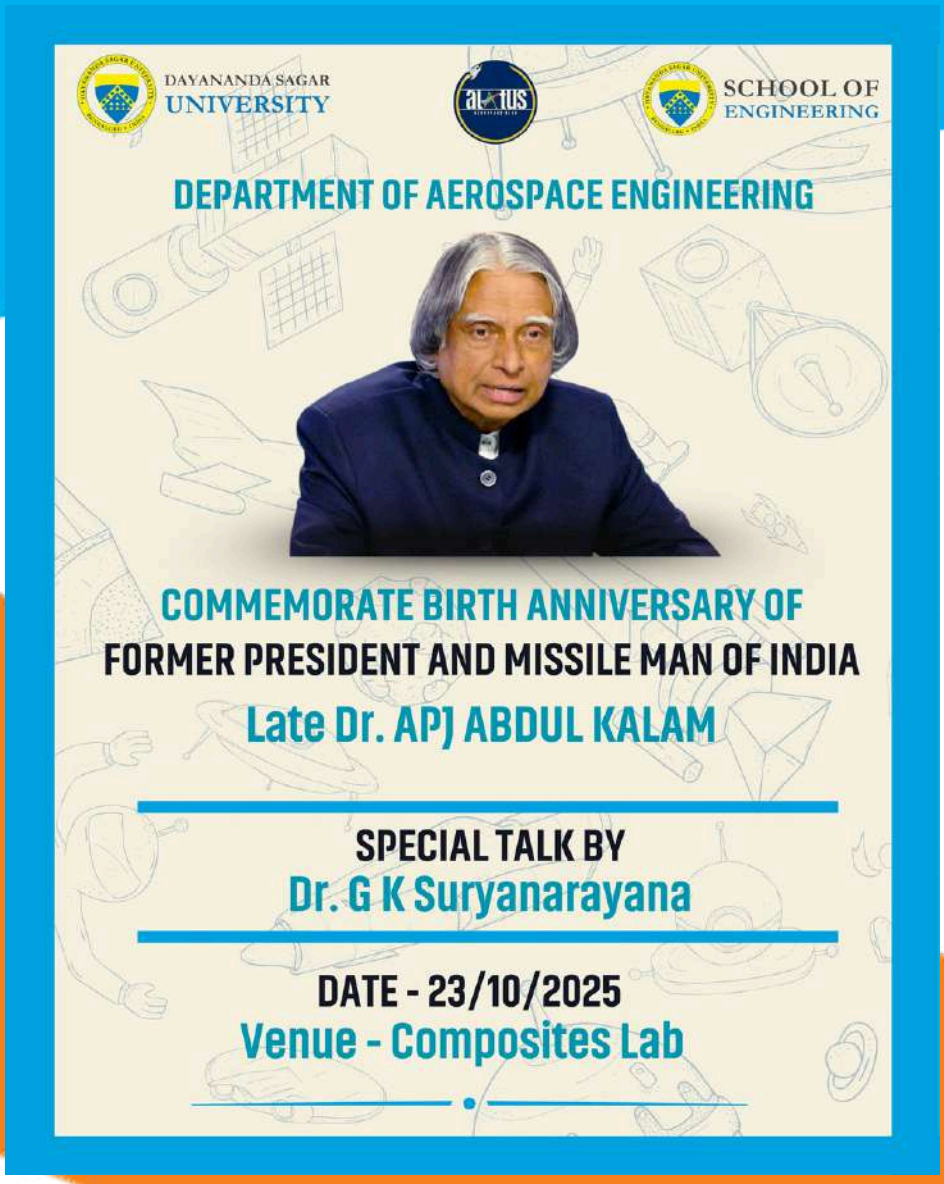

THE LEADERSHIP LAB

“From cables to clouds: Exploring Networking & CCNA”

The Department of Computer Science and Engineering (Data Science), Dayananda Sagar University, organized the event “From Cables to Clouds: Exploring Networking & CCNA” on October 8, 2025, with 165 participants. Conducted in collaboration with PyNetLabs Private Limited and led by Mr. Chirag Dhall, the session received overwhelmingly positive feedback—96.4% of participants found the content highly relevant, 95.7% reported improved understanding of networking fundamentals, and 60% rated the CCNA career roadmap discussion as very informative. Additionally, 86.6% rated the speaker 4 or 5 out of 5 for clarity and engagement. The event successfully achieved its objectives, highlighting the growing demand for industry-integrated learning. Following this success, the department plans to introduce advanced workshops on Network Automation and Cloud Networking Security, enhance hands-on virtual lab training, and formalize collaboration with PyNetLabs for continued industry-driven knowledge delivery.

Celebration of the birth anniversary of “Missile Man of India”

The Alatus Aerospace Club of the Department of Aerospace Engineering, Dayananda Sagar University, proudly celebrated the birth anniversary of the Former President and “Missile Man of India,” Late Dr. A.P.J. Abdul Kalam. To honor his remarkable contributions to science and technology, a special talk was delivered by Dr. G. K. Suryanarayana on 23rd October 2025 at the Composites Lab. The session inspired students to pursue innovation with passion, integrity, and a spirit of excellence, embodying Dr. Kalam’s enduring ideals. The event served as a heartfelt tribute to the visionary leader whose dreams continue to ignite young minds and drive the nation toward progress.

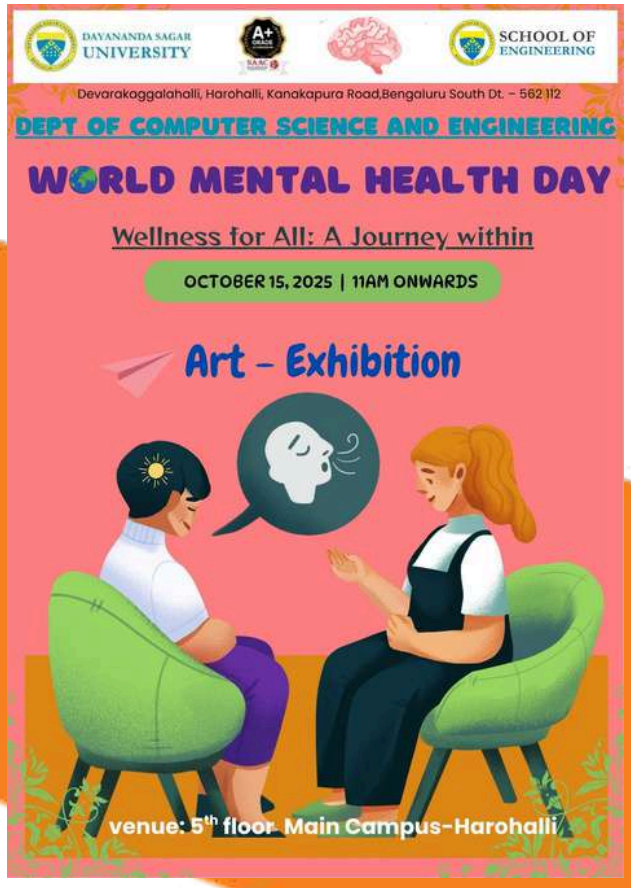


“World Space Week 2025 Activity”

Dayananda Sagar University’s Department of Aerospace Engineering celebrated World Space Week 2025 with great enthusiasm under the global theme “Living in Space.” The Alatus Aerospace Club organized a series of engaging and educational activities from October 4th to 10th, 2025, to ignite students’ curiosity about space exploration and life beyond Earth. The week featured a variety of events, including article writing, photo collage and videography competitions, and a theme-based quiz that encouraged participants to explore the challenges and innovations related to living in space. These activities provided students with a platform to showcase their creativity, scientific understanding, and passion for aerospace. The celebration fostered awareness about humanity’s journey toward sustained space habitation and inspired young minds to contribute to the future of space research and technology.

“World Mental Health Day”

The Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, organized a Mental Health Awareness Event aimed to promote emotional wellbeing among students and faculty of the Computer Science and Engineering Department on 15 October 2025. The event was graced by chief guest Girisha G, Chairperson of CSE. Prof. Manojkumar N I, Assistant Professor, Department of CSE, coordinator for the event also addressed the gathering. The program began with a warm welcome and an introduction . Experts discussed challenges such as stress, career pressure, and personal struggles while guiding students to recognize early signs of anxiety, depression, and burnout. They encouraged participants to view seeking help as a sign of strength rather than weakness. Engaging discussions introduced coping strategies, mindfulness practices, and techniques for maintaining balance in life. Faculty members were urged to support students showing emotional distress. Interactive sessions and activities helped students express their thoughts and learn self-care methods, while informational materials on counselling and mental health resources were shared. The event concluded with a powerful message on empathy, awareness, and prioritizing mental health, successfully fostering a positive and stigma-free environment that supports both academic success and personal wellbeing.

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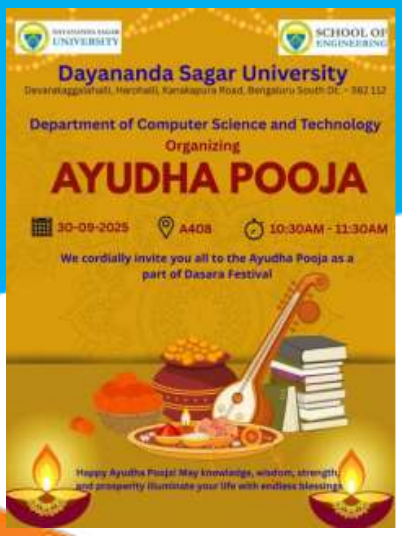
“Ayudha Pooja Celebration” - CST

The Department of Computer Science & Technology celebrated Ayudh Pooja on 30th September 2025 with devotion and enthusiasm. The occasion, which holds great cultural and spiritual significance, was observed by worshipping the instruments, tools, and equipment that symbolize knowledge, work, and skill. Faculty members, staff, and students actively participated in the celebration. The rituals began with traditional prayers, followed by the decoration of instruments, laboratories, and classrooms with flowers and rangoli. The spirit of togetherness and reverence for knowledge was evident throughout the event. The celebration not only reflected our respect for learning and professional tools but also strengthened the bond among the department community.



“Ayudha Puja” - CSE(DS)

The Department of Data Science celebrated Ayudha Puja on 9th September 2025 with great enthusiasm and devotion. The event began with traditional rituals and prayers, seeking blessings for knowledge, wisdom, and the efficient use of tools and instruments that support learning and innovation. The department premises were beautifully decorated with flowers and rangoli, creating a festive atmosphere. Faculty members, staff, and students actively participated in the puja, symbolizing respect for the tools and technologies that aid their academic and research endeavors. The ceremony was followed by the distribution of prasad and a small gathering where everyone shared festive greetings and joy. The celebration fostered a sense of unity, cultural appreciation, and gratitude among students and faculty alike. It was a meaningful occasion that blended tradition with the spirit of learning, reflecting the department’s holistic approach to education and community.

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INDUSTRIAL VISITS

Industrial Visit to “DiFACTO Robotics and Automation”

The Department of Artificial Intelligence & Robotics, Dayananda Sagar University, organized an industrial visit to DiFACTO Robotics and Automation, Bidadi, Bengaluru, on October 15, 2025. The visit aimed to bridge the gap between classroom learning and real-world industrial practices by exposing students to cutting-edge technologies in robotics, automation, and motion control systems. Students observed a wide range of industrial robotic setups, including Kawasaki robotic welding cells, PLC control systems, HMI interfaces, 3D vision systems, and gantry robots, gaining insight into automation workflows, programming languages, and safety mechanisms. Demonstrations such as bin picking, palletization, and manual “teach-in” training helped students understand real-time robot programming and industrial automation applications. The experience strengthened their knowledge of automation, control systems, and industrial AI applications, inspiring them to pursue innovation in intelligent manufacturing. The department expressed gratitude to DiFACTO Robotics and Automation for their technical guidance and hospitality, and to DSU faculty for organizing such a valuable, hands-on learning experience.

Industrial Visit to "National Aerospace Laboratories (NAL) Wind Tunnel Facility"

On 14th Oct 2025, Department of Aerospace Engineering at Dayananda Sagar University organised an industrial visit to National Aerospace Laboratories (NAL) wind Tunnel Facility Industrial Visit where the students from III and IV year witnessed Transonic wind tunnel, Turbine blade testing propulsion testing facility and saras hanger Dr Srinath R Dr Kartik S Tandel and Mr Harish KL accompanied the students for this industrial visit.

Industry visit to “Infosys campus under Teach Spark 3.0”

The Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, participated in TechSpark 3.0 organized by Infosys Springboard at the Infosys campus on October 28, 2025. The event featured a Tech Talk by Mr. Suyash Singh, CEO of GalaxEye, on “Digitization of Space Technology,” offering students valuable insights into advancements in space technology, including Mission Dristi—the world’s first multi-sensor satellite powered by Synfused OptoSAR Technology. Students from the CSE and Aerospace Engineering departments also explored industry-driven projects, ISRO and private sector innovations, and real-world engineering applications. The session inspired students to pursue research and hands-on learning opportunities in emerging technologies. The visit was successfully coordinated by Ms. Pruthvi Adisesha from the Infosys Springboard team and Prof. Anurag Gupta from DSU.

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FACULTY ACHIEVEMENTS

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

- Dr. Durbadal Chattaraj has presented a research paper titled “Adaptive Audio Steganography using Syndrome-Trellis Codes and Global Optimization of Adaptive Steganography” at the 3rd IEEE International Conference for Women in Innovation, Technology, and Entrepreneurship (ICWITE 2025), organized IEEE Women in Engineering Affinity group Bangalore Section at the B. G. S. College of Engineering, Bangalore. The conference was held from 26th–27th September 2025 at Bangalore, Karnataka, India.

IEEE BANGALORE SECTION

ICWITE 2025

CERTIFICATE

OF APPRECIATION

This certificate is presented to

M, Manjula; Chattaraj, Durbadal

for presenting the paper titled

PID – 1879 - **Adaptive Audio Steganography using Syndrome-Trellis Codes and Global Optimization of Adaptive Steganography**

in the 3rd **IEEE International Conference for Women in Innovation, Technology, and Entrepreneurship**, (ICWITE 2025) on 26-27 Sep 2025 organized by **IEEE Women in Engineering Affinity Group Bangalore Section** at B. G. S. College of Engineering, Bangalore.

Prof. Ashwini VR	Dr. Usha Rani K R	Dr. P Deepa Shenoy
General Co-Chair	General Co-Chair	General Chair
IEEE ICWITE 2025	IEEE ICWITE 2025	IEEE ICWITE 2025

Prof. Bharath M B
Assistant Professor
Department of CSE

Prof. Pooja Shree H R
Assistant Professor
Department of CSE

Prof. Sharanabasappa Tadkal
Assistant Professor
Department of CSE(CY)

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

- Prof. Bharath M B, Prof. Pooja Shree H R, Prof. Sharanabasappa Tadkal, and Prof. Sindhu A have presented a research paper titled "AvianTrack: Real-Time Bird Species Detection and Classification in Streaming Video via YOLOv8" at the International Conference on Artificial Intelligence and Networking (ICAIN-2025), organized jointly by BITS Pilani, Dubai Campus (UAE), in association with the Indian Institute of Information Technology (IIIT) Allahabad, India, and Universal Innovators, Delhi, India, held on 6th–7th October 2025.

(ICAIN - 2025)

INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND NETWORKING (ICAIN-2025)

Certificate

This is to certify that Prof. /Dr. / Mr. / Ms. Sharanabasappa Tadkal is a presenter/co-author of the paper titled AvianTrack: Real-Time Bird Species Detection and Classification in Streaming Video via YOLOv8 presented at the International Conference on Artificial Intelligence and Networking (ICAIN-2025) organized jointly by BITS Pilani, Dubai Campus, UAE in association with the Indian Institute of Information Technology, Allahabad, India & Universal Inovators, Delhi, India on 6th - 7th October 2025.

Prof. Sujata B. Shetty, Conference Chair — Dr. Anupam Agrawal, Organizing Chair, Professor & Dean, IIIT Allahabad, India — Prof. Abhishek Swaroop, Publication Chair

(ICAIN - 2025)

INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND NETWORKING (ICAIN-2025)

Certificate

This is to certify that Prof. /Dr. / Mr. / Ms. Poojashree H. R. is a presenter/co-author of the paper titled AvianTrack: Real-Time Bird Species Detection and Classification in Streaming Video via YOLOv8 presented at the International Conference on Artificial Intelligence and Networking (ICAIN-2025) organized jointly by BITS Pilani, Dubai Campus, UAE in association with the Indian Institute of Information Technology, Allahabad, India & Universal Inovators, Delhi, India on 6th - 7th October 2025.

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(ICAIN - 2025)

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(ICAIN - 2025)

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Certificate

This is to certify that Prof. /Dr. / Mr. / Ms. Sindhu A is a presenter/co-author of the paper titled AvianTrack: Real-Time Bird Species Detection and Classification in Streaming Video via YOLOv8 presented at the International Conference on Artificial Intelligence and Networking (ICAIN-2025) organized jointly by BITS Pilani, Dubai Campus, UAE in association with the Indian Institute of Information Technology, Allahabad, India & Universal Inovators, Delhi, India on 6th - 7th October 2025.

Prof. Sujata B. Shetty, Conference Chair — Dr. Anupam Agrawal, Organizing Chair — Prof. Abhishek Swaroop, Publication Chair

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

- Dr. Mubeen Ahmed Khan has presented a research paper titled “Facial Recognition-Enhanced User Profiling for Personalized Recommendation Systems” at the IEEE International Conference on Advances in Computing Research on Science, Engineering and Technology (ACROSET 2025), organized by Acropolis Institute of Technology and Research, Indore, India, held during 27–28 September 2025.


ACROPOLIS Enlightening Wisdom
IEEE
IEEE COMPUTER SOCIETY
ACROSET

IEEE International Conference on
Advances in Computing Research on
Science Engineering and Technology (ACROSET 2025)

CERTIFICATE

is presented to

Mubeen Ahmed Khan

Dayananda Sagar University, Ramanagara

author of paper entitled

Facial Recognition-Enhanced User Profiling for Personalized Recommendation Systems

has been presented in the **IEEE International Conference on Advances in Computing Research on Science Engineering and Technology (ACROSET 2025)** during **27-28 Sep 2025** at **Acropolis Institute of Technology and Research, Indore, India.**

Prof. (Dr.) Kamal Kumar Sethi
Conference Chair, ACROSET 2025

Prof. (Dr.) Shashi Chandra Sharma
Director, AITR Indore

S.No. : ACROSET/2025/A118

www.acroset.in

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

- Dr. Dilip Kumar Jang Bahadur Saini served as a Session Chair at the 2025 IEEE 4th International Conference for Advancement in Technology (ICONAT), held from 19th to 21st September 2025. The event recognized his valuable contribution to facilitating academic discussions and enhancing the conference's technical sessions

- Dr. Dilip Kumar Jang Bahadur Saini was invited to serve as a Resource Person and Distinguished Speaker at the 39th International Conference on Transforming Vietnam: Multidisciplinary Strategies for Sustainable Development, held from 28th to 30th September 2025.

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

- Dr. D. Sumathi delivered a highly valuable talk as part of the Hands-on Workshop and Expert Talks on NLP, LLM Engineering, Prompt Engineering, and Agentic AI. This significant event was meticulously organized by the Department of Artificial Intelligence and Robotics Engineering, DSU, and took place on Monday, October 25, 2025.

Dr. O. Abhilash
Assistant Professor
Department of ME

- Dr. O. Abhilash, from the Mechanical Engineering department, has published a paper in the Journal of Environmental Nanotechnology titled “Enhancing Combustion, Performance, and Emission Characteristics of B20 Milk Scum Biodiesel in a Diesel Engine Using Aluminium Oxide Nanoparticles as an Additive.”


Enhancing Combustion, Performance, and Emission Characteristics of B20milkscum Biodiesel in a Diesel Engine Using Aluminium Oxide Nanoparticles as an Additive

Dr. Vinay M S
Assistant Professor
Department of ME

Dr. Saravana Bavan D
Chairperson
Department of ME

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

Dr. Ravitej Y P
Assistant Professor
Department of ME

- Mr. S. Girish, Dr. M. S. Vinay, Dr. Saravana Bavan, Mr. Rounaq Ahmed, Dr. P. M. G. Bashir Asdaque, Mr. M. Revansiddappa, Dr. Dandapani P., and Dr. Y. P. Ravitej published a paper titled “Evaluation of Thermal Properties of Epoxy Composites Filled by Nanofiller Materials” in the Journal of Open Access Review.

REVIEW Open Access

Evaluation of thermal properties of epoxy composites filled by nanofiller materials

S. Girish[1], M. S. Vinay[2], D. Saravana Bavan[1], Rounaq Ahmed[2], P. M. G. Bashir Asdaque[1*], M. Revansiddappa[3], Dandapani P.[4] and Y. P. Ravitej[1]

*Correspondence:
P. M. G. Bashir Asdaque
pmgb.ba@gmail.com
[1]Department of Mechanical Engineering, School of Engineering, Dayananda Sagar University, Bangalore, India
[2]New Bird Chemicals, Davanagere, India
[3]Science and Humanities Department, PES University, Bangalore, India
[4]Department of Mechanical Engineering, East Point College of Engineering and Technology, Bangalore, India

Abstract

The integration of nanofillers in epoxy matrices is found to be a very effective way to increase the thermal properties of thermosetting polymers, which are very popular. This survey cumulates the latest findings concerning the influence of nanofillers on the thermal behaviour of epoxy composites and is, therefore, an indispensable source of information for materials scientists and engineers who are interested in the design of these materials for their specific applications. Neat epoxy resins come with some difficulties such as brittleness, low thermal conductivity, and large thermal expansion coefficient, which can be easily solved by adding nanofillers. Nanofillers like carbon nanotubes, graphene/silica nanoparticles, and metal oxides have displayed the capacity to bring substantial improvements to the thermal conductivity, as well as the thermal and dimensional stabilities of epoxy composites. The outcome of the above-mentioned nanocomposites outperforms well the neat-epoxy based ones, which makes nanofillers applicable to a multitude of new high-tech sectors including but not exclusive to electronics thermal management, aerospace heat resistance, and high-temperature operation of automotive parts. The challenges stem from the fact that uniform nanofiller dispersion is still out of reach, constant interfacial adhesion is yet to be optimized, and cost and scalability issues persist. Only after these obstacles are tackled can we be sure that the potential of nanofillers in epoxy composites is fully exploited. It is suggested that the future research should be conducted to transform these challenges, thus enabling nanofillers' full potential realization through the usage of these materials over increasingly extended periods and lead the path to their extension in the wide spectrum of applications. This review delivers the first unified, side-by-side evaluation of thermal, mechanical, and electrical properties for a broad spectrum of epoxy–nanofiller systems under consistent processing criteria, and proposes an integrative framework to map emerging trends, critical challenges, and future research directions in epoxy nanocomposites.

Keywords Nanofillers, Epoxy composites, Epoxy nanocomposites

Dr. Vinay M S
Assistant Professor
Department of ME

Dr. Saravana Bavan D
Chairperson
Department of ME

Dr. Ravitej Y P
Assistant Professor
Department of ME

- Mr. S. Girish, Dr. M. S. Vinay, Dr. Saravana Bavan, Dr. Y. P. Ravitej, and Dr. Dandapani published a paper titled “Thermal and Mechanical Properties Enhancement of Epoxy Composites Using Graphene, MWCNTs, and Biochar: A Machine Learning-Assisted Approach” in the Journal of The Institution of Engineers (India) – Series D.

J. Inst. Eng. India Ser. D
https://doi.org/10.1007/s40033-025-00950-6

ORIGINAL CONTRIBUTION

Thermal and Mechanical Properties Enhancement of Epoxy Composites Using Graphene, MWCNTs, and Biochar: A Machine Learning-Assisted Approach

S. Girish[1] · M. S. Vinay[1] · D. Saravana Bavan[1] · Y. P. Ravitej[1] · Dandapani[2]

Received: 2 July 2025 / Accepted: 25 September 2025
© The Institution of Engineers (India) 2025

Abstract The development of lightweight, thermally efficient polymer composites is vital for advancing technologies in aerospace, electronics, and renewable energy sectors. This study investigates the thermal and mechanical performance of epoxy-based composites reinforced with graphene nanoplatelets, multi-walled carbon nanotubes (MWCNTs), banana peel-derived biochar (BB), and hybrid combinations of MWCNT and BB. These fillers were incorporated in varying weight percentages (0.2–0.8%) and processed using controlled magnetic stirring and ambient curing. The fabricated specimens were precisely cut using abrasive water jet technology to preserve structural integrity. Thermal conductivity, density, and Vickers hardness were measured following standard protocols. Among all fillers, graphene at 0.6 wt% exhibited the highest improvement in both thermal conductivity (0.237 W/m K) and hardness (17.75 HV), surpassing base epoxy values. MWCNTs showed consistent, though slightly lower, enhancements, while hybrid and BB bio-based materials for creating thermally functional, lightweight composites with machine learning-assisted optimization capabilities.

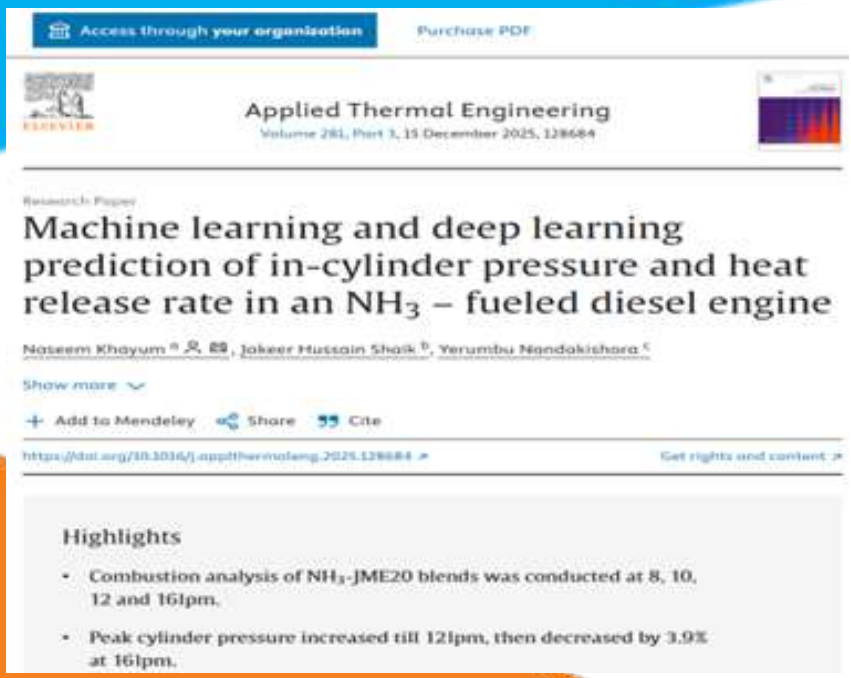
Keywords Epoxy composites · Graphene nanoplatelets · Multi-walled carbon nanotubes (MWCNTs) · Thermal conductivity · Vickers hardness · Machine learning

Abbreviations

BB	Banana peel-derived biochar
G	Graphene nanoplatelets
MWCNT	Multi-walled carbon nanotubes
PMC	Polymer matrix composite
wt%	Weight percentage
HV	Vickers hardness value
TC	Thermal conductivity
SEM	Scanning electron microscopy
RF	Random forest (machine learning model)

Dr. Naseem Khayum
Assistant Professor
Department of ME

- Dr. Naseem Khayum, Assistant Professor in the Department of Mechanical Engineering, Dayananda Sagar University, Bangalore, has published a paper in the Q1 journal, Applied Thermal Engineering (Impact Factor: 6.9). The paper, titled “Machine Learning and Deep Learning Prediction of In-Cylinder Pressure and Heat Release Rate in an NH_3-Fueled Diesel Engine,”.



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Applied Thermal Engineering

Volume 281, Part 3, 15 December 2025, 128684

Research Paper

Machine learning and deep learning prediction of in-cylinder pressure and heat release rate in an NH_3 – fueled diesel engine

Naseem Khayum [a], Jokeer Hussain Shaik [b], Yerumbu Nandakishore [c]

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https://doi.org/10.1016/j.applthermaleng.2025.128684 Get rights and content

Highlights

- Combustion analysis of NH_3-JME20 blends was conducted at 8, 10, 12 and 16lpm.
- Peak cylinder pressure increased till 12lpm, then decreased by 3.9% at 16lpm.

Dr. Rahul Kumar
Associate Professor
Department of ME

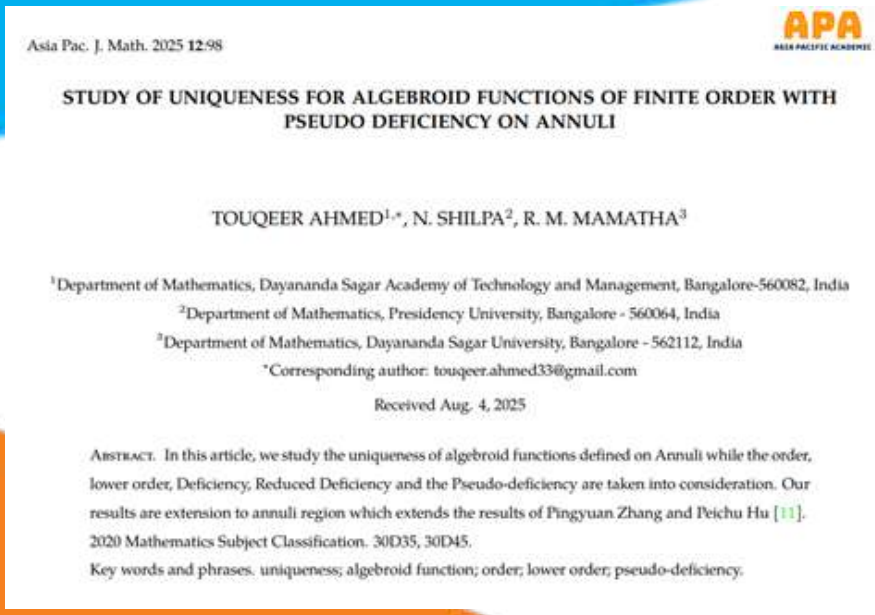
- Dr. Rahul Kumar has received recognition as a Reviewer for Scientific Reports, a prestigious international journal published by Springer Nature.

Dr. K. Sudha Deepthi
Assistant Professor
Department of ME

- Dr. Sudha Deepthi, Manager – Bosch Rexroth Centre of Competence for Industrial Automation Technologies, DSU, delivered an expert talk on “Industrial Automation and Digitalization in Industry 4.0” organized by the Centre of Excellence (COE) – Drones and Robotics, Department of ECE, CMRIT.

Dr. Mamatha R M
Assistant Professor
Department of Mathematics

- Dr. Mamatha had published the research article entitled “Study of uniqueness for algebroid functions of finite order with pseudo deficiency on annuli” in the journal Asia Pacific Journal of Mathematics published by Asia Pacific Academic in volume 12(2025), DoP: 22 Oct 2025, with an impact factor of 0.205, a Q-4 Scopus indexed journal, h-index:6, ISSN: 2357-2205.



Asia Pac. J. Math. 2025 **12**:98

APA

STUDY OF UNIQUENESS FOR ALGEBROID FUNCTIONS OF FINITE ORDER WITH PSEUDO DEFICIENCY ON ANNULI

TOUQEER AHMED[1,*], N. SHILPA[2], R. M. MAMATHA[3]

[1]Department of Mathematics, Dayananda Sagar Academy of Technology and Management, Bangalore-560082, India
[2]Department of Mathematics, Presidency University, Bangalore - 560064, India
[3]Department of Mathematics, Dayananda Sagar University, Bangalore - 562112, India
*Corresponding author: touqeer.ahmed33@gmail.com

Received Aug. 4, 2025

Abstract. In this article, we study the uniqueness of algebroid functions defined on Annuli while the order, lower order, Deficiency, Reduced Deficiency and the Pseudo-deficiency are taken into consideration. Our results are extension to annuli region which extends the results of Pingyuan Zhang and Peichu Hu [11].

2020 Mathematics Subject Classification. 30D35, 30D45.

Key words and phrases. uniqueness; algebroid function; order; lower order; pseudo-deficiency.

Dr. Srimanta Maji
Assistant Professor
Department of Mathematics

Dr. Avinash Kumar Saurav
Assistant Professor
Department of ASE

Prof. Sripad Kulkarni
Assistant Professor
Department of ASE

- Dr. Avinash Kumar Saurav (Assistant Professor, ASE), along with Mr. Sripad Kulkarni S (Assistant Professor, ASE) and Dr. Srimanta Maji (Assistant Professor, Mathematics), has received seed grant approval for their project titled “AI-based Smart Active Health Monitoring using UAV.” The project has been awarded a seed fund of ₹3,51,784/- for a duration of one year.

DAYANANDA SAGAR UNIVERSITY

10.09.2025

To
Dr. Avinash Kumar Saurav,
Assistant Professor,
Dept of AE,
SOE, DSU

Sub: Approval & Sanction of Seed Money Grant

Dear Dr. Avinash Kumar Saurav, Dr. Srimanta Maji & Prof. Sripad Kulkarni S

This has reference to the Project proposal entitled, "AI Based Smart Active Health Monitoring using UAV" that you submitted to the University and which was subsequently approved in **August 2025**. The following are the details:

- Dr. Avinash Kumar Saurav, Assistant Professor & Prof. Sripad Kulkarni S, Assistant Professor, Dept of AE & Dr. Srimanta Maji, Assistant Professor, Dept of Mathematics, SOE – DSU is the Principal Investigator and Co- Principal Investigator.
- The Seed Money amount approved (INR) is for **3, 51,784/-**.
- Duration of the approved project: **1 Year.**
- Interim Report to be submitted by once in six months until the submission of project closure report.
- It is mandatory to fulfill all the deliverables mention in proposal.
- Appropriate Statement of Accounts to be maintained as per directive of CFO, DSU.
- The project team will abide by the Rules & Regulations of the University for Administration of the aforesaid project.

Yours Sincerely,

(Name illegible)

10/9/25

Copy to: P.S to Vice Chancellor, DSU/Dean-Research/CFO/Dean-SOE

Main Campus: Devarabisanahalli, Harohalli, Kanakapura Road, Ramanagara District, Karnataka - 562 112, Ph: +91-80-28466100
City Campus: Kudlu Gate, Hosur Main Road, Bengaluru - 560 114, Ph: +91-80-49571000, Web: www.dsu.ac.in

Dr. B V N Ramakumar
Professor
Department of ASE

- Dr. B. V. N. Ramakumar successfully participated as a Delegate in Fluid Power R&D Confluence (FPRD) 2025, held at Bengaluru on 9th & 10th October 2025.

FLUID POWER SOCIETY OF INDIA

Certificate Of Participation

This is to certify that

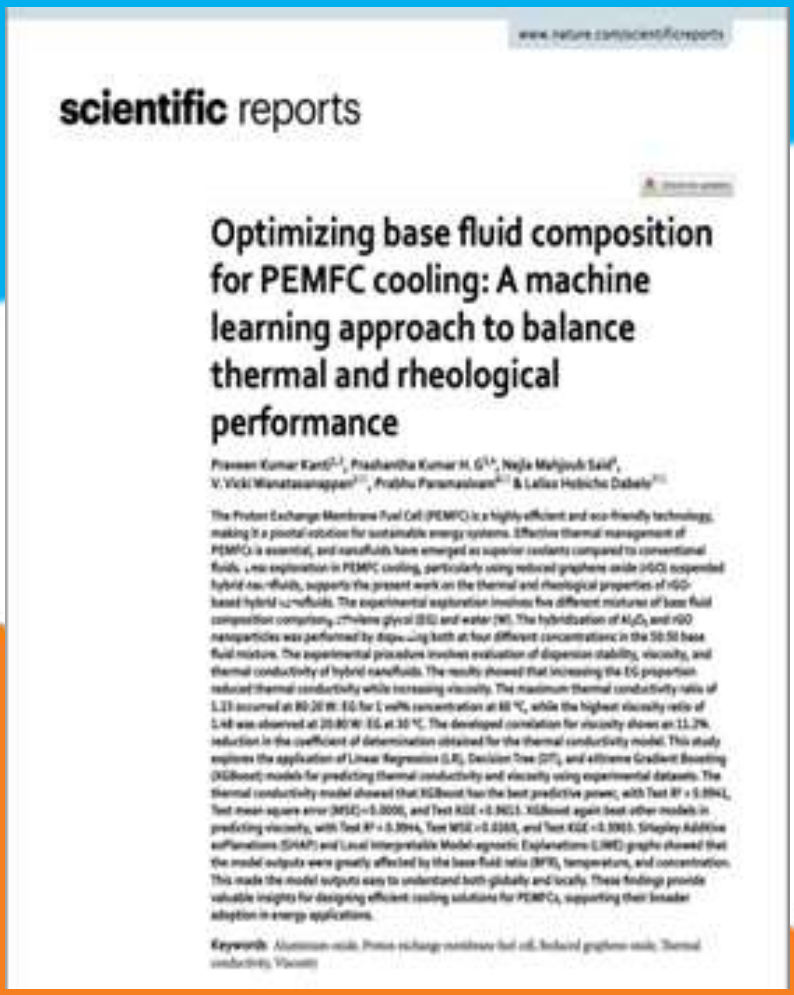
Dr. Ramakumar B V N

of DAYANAND SAGAR UNIVERSITY

has participated as Delegate in Fluid Power R&D Confluence (FPRD) 2025, held at Bengaluru on 9th & 10th October 2025.

Dr. Prashantha Kumar
Associate Professor
Department of ASE

- Dr Prashanthakumar H G published a research paper titled “Optimizing base fluid composition for PEMFC cooling machine learning approach to balance thermal and rheological performance published in Scientific Reports (Nature Portfolio Q1 with impact factor 4.6).



www.nature.com/scientificreports

scientific reports

Optimizing base fluid composition for PEMFC cooling: A machine learning approach to balance thermal and rheological performance

Dr. Nagaraja S. R.
Professor & Chairperson
Department of ASE

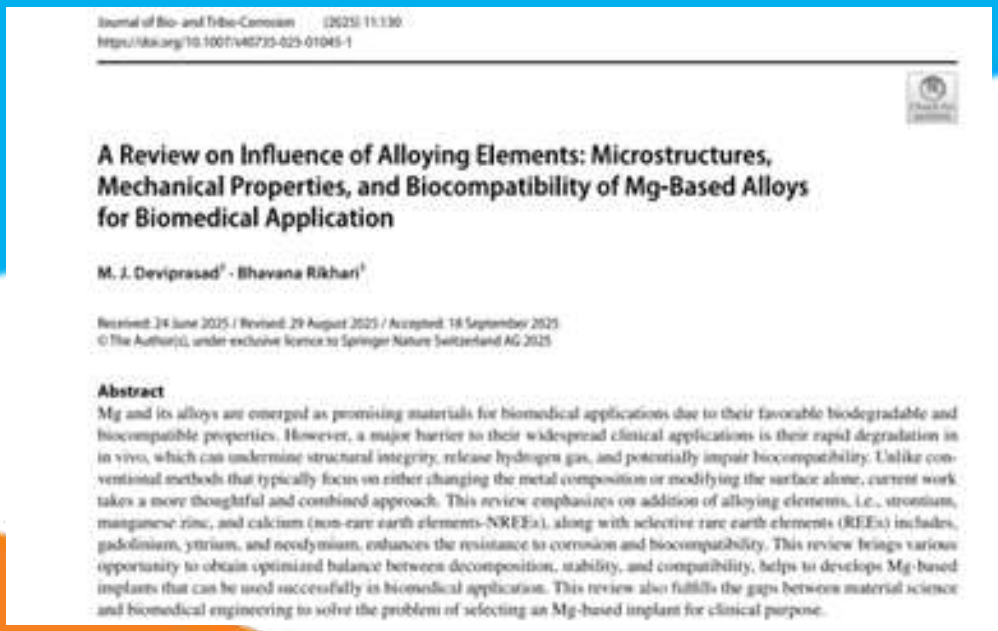
Dr. Prashantha Kumar
Associate Professor
Department of ASE

Prof. Sripad Kulkarni
Assistant Professor
Department of ASE

- Dr Nagaraja SR, Dr Prashanthakumar HG, Prof Sripad Kulkarni S Participated in Digital Engineering with Virtual Twins Program launch at Dassault Systèmes office in Bangalore on 9/10/25. This Digital Engineering with Virtual twins is a multidisciplinary activity that will be helpful for the students in aerospace, electronics, robotics, and mechanical domains in order to create a virtual twin using 3D experience Platforms.

Dr. Bhavana Rikhari
Assistant Professor
Department of Chemistry

- Dr Bhavana Rikhari published “A Review on Influence of Alloying Elements: Microstructures, Mechanical Properties, and Biocompatibility of Mg-Based Alloys for Biomedical Application”, J Bio Tribo Corros 11, 130 (2025) Scopus, Q2.



Journal of Bio- and Tribo-Corrosion (2025) 11:130
https://doi.org/10.1007/s40735-025-01045-1

A Review on Influence of Alloying Elements: Microstructures, Mechanical Properties, and Biocompatibility of Mg-Based Alloys for Biomedical Application

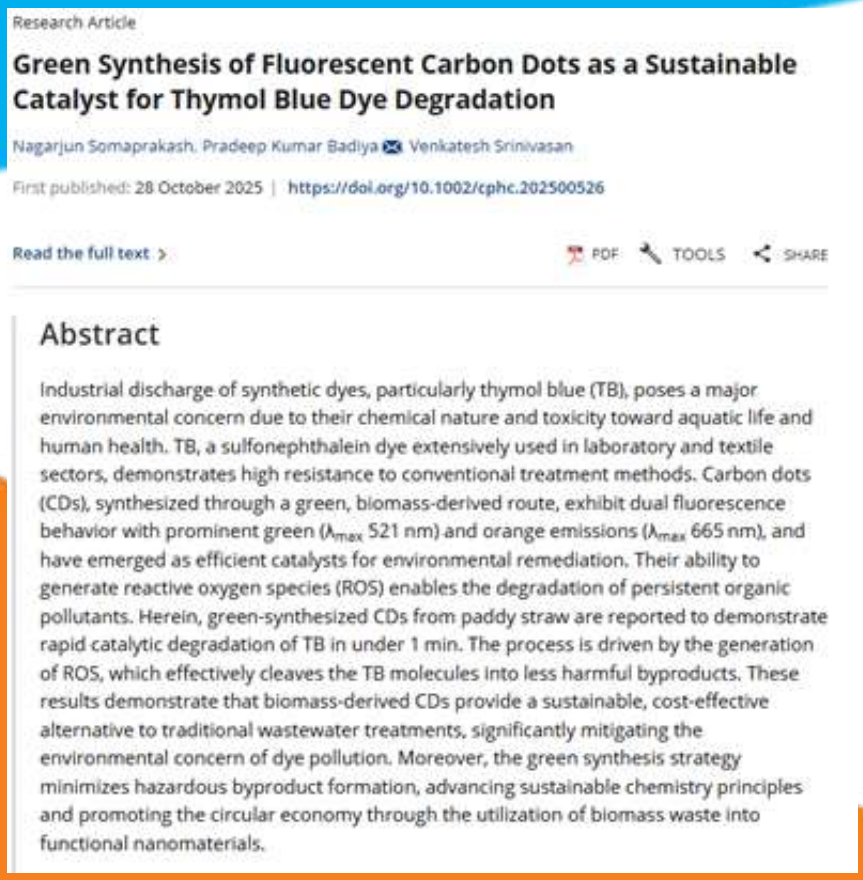
M. J. Deviprasad[1] · Bhavana Rikhari[1]

Received: 24 June 2025 / Revised: 29 August 2025 / Accepted: 18 September 2025

Abstract
Mg and its alloys are emerged as promising materials for biomedical applications due to their favorable biodegradable and biocompatible properties. However, a major barrier to their widespread clinical applications is their rapid degradation in in vivo, which can undermine structural integrity, release hydrogen gas, and potentially impair biocompatibility. Unlike conventional methods that typically focus on either changing the metal composition or modifying the surface alone, current work takes a more thoughtful and combined approach. This review emphasizes on addition of alloying elements, i.e., strontium, manganese zinc, and calcium (non-rare earth elements-NREEs), along with selective rare earth elements (REEs) includes, gadolinium, yttrium, and neodymium, enhances the resistance to corrosion and biocompatibility. This review brings various opportunity to obtain optimized balance between decomposition, stability, and compatibility, helps to develops Mg-based implants that can be used successfully in biomedical application. This review also fulfills the gaps between material science and biomedical engineering to solve the problem of selecting an Mg-based implant for clinical purpose.

Dr. Pradeep Kumar Badiya
Assistant Professor
Department of Chemistry

- Dr. Pradeep Kumar Badiya, Assistant Professor, Department of Chemistry, School of Engineering, DSU, and his Ph.D. student, Mr. Nagarjun, have published a research article titled “Green Synthesis of Fluorescent Carbon Dots as a Sustainable Catalyst for Thymol Blue Dye Degradation” in ChemPhysChem (Wiley), a Research article (with an Impact Factor: 2.2).



Research Article

Green Synthesis of Fluorescent Carbon Dots as a Sustainable Catalyst for Thymol Blue Dye Degradation

Nagarjun Somaprakash, Pradeep Kumar Badiya ✉ Venkatesh Srinivasan

First published: 28 October 2025 | https://doi.org/10.1002/cphc.202500526

Read the full text > PDF TOOLS SHARE

Abstract

Industrial discharge of synthetic dyes, particularly thymol blue (TB), poses a major environmental concern due to their chemical nature and toxicity toward aquatic life and human health. TB, a sulfonephthalein dye extensively used in laboratory and textile sectors, demonstrates high resistance to conventional treatment methods. Carbon dots (CDs), synthesized through a green, biomass-derived route, exhibit dual fluorescence behavior with prominent green (λ_{max} 521 nm) and orange emissions (λ_{max} 665 nm), and have emerged as efficient catalysts for environmental remediation. Their ability to generate reactive oxygen species (ROS) enables the degradation of persistent organic pollutants. Herein, green-synthesized CDs from paddy straw are reported to demonstrate rapid catalytic degradation of TB in under 1 min. The process is driven by the generation of ROS, which effectively cleaves the TB molecules into less harmful byproducts. These results demonstrate that biomass-derived CDs provide a sustainable, cost-effective alternative to traditional wastewater treatments, significantly mitigating the environmental concern of dye pollution. Moreover, the green synthesis strategy minimizes hazardous byproduct formation, advancing sustainable chemistry principles and promoting the circular economy through the utilization of biomass waste into functional nanomaterials.

Prof. Geethanjali N. K.
Assistant Professor
Department of Chemistry

Dr. A.V. Raghu
Professor
Department of Chemistry

- Prof. Geethanjali N. K. and Dr. A.V. Raghu have published an article titled “Eutectic systems of glycyrrhetinic acid: a promising approach for enhancing aqueous solubility and antibacterial activity” in the Journal of Molecular Liquids (Elsevier), which is a Q1-ranked journal with an impact factor of 5.2..

Journal of Molecular Liquids

Eutectic systems of glycyrrhetinic acid: a promising approach for enhancing aqueous solubility and antibacterial activity

Abstract

Dr. A.V. Raghu
Professor
Department of Chemistry

- Dr. A. V. Raghu, Professor at DSU, received the Best Researcher Award in Chemistry under Scientific Laurels.

- Dr A.V. Raghu has reviewed seven manuscripts in the ELSEVIER Journals.

- Dr. A.V. Raghu has published one more research collaborative Letter to Editor in the Oral Diseases (WILEY), a Q1 journal with an Impact Factor of 2.9, Cite Score of 7.3, and an H-Index of 109.

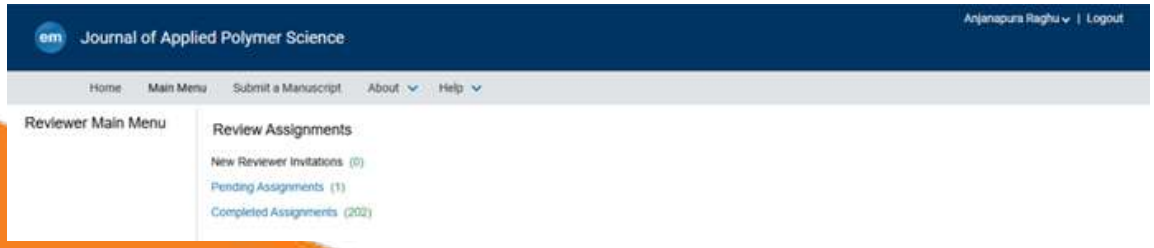
Oral Diseases

WILEY

LETTER TO THE EDITOR

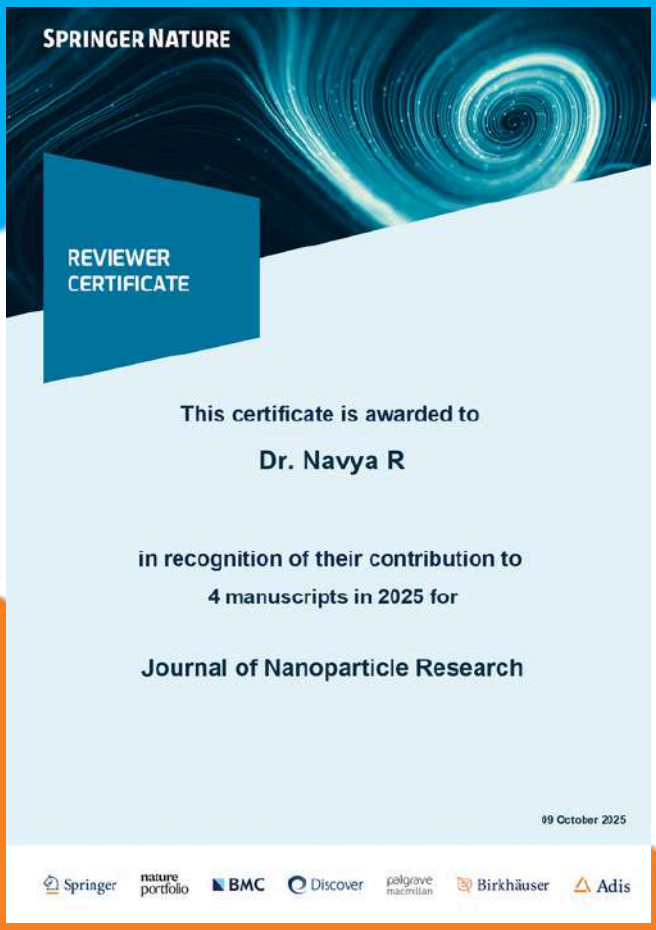
Developing Anticancer Redox Chemotherapeutics: Challenges and Opportunities

- Dr. A.V. Raghu has reviewed more than 200 articles in the Journal of Applied Polymer Science since 2016.



Dr. Navya R
Assistant Professor
Department of ECE

- Dr. Navya R, Assistant Professor, Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, received a Reviewer Certificate from Springer Nature for her valuable contribution to the Journal of Nanoparticle Research. The recognition, awarded on October 9, 2025, acknowledges her review of four research manuscripts during the year 2025.



Dr. Navya R
Assistant Professor
Department of ECE

Dr. Pushpa Mala S
Associate Professor
Department of ECE

Dr. Arun Ananthanarayanan
Associate Professor
Department of ECE

- Dr. Navya R, Assistant Professor, Dr. Pushpa Mala S, Associate Professor, and Dr. Arun Ananthanarayanan, Associate Professor, along with students Naeem Ahmed and Spoorthi B S, from the Department of Electronics and Communication Engineering, Dayananda Sagar University, received a Certificate of Appreciation for their paper presentation titled “Image Artifact Removal Using DnCNN in Low Bandwidth Wireless Communication.” The paper was presented at the 3rd IEEE International Conference for Women in Innovation, Technology, and Entrepreneurship (ICWITE 2025), held on September 26–27, 2025, at B.G.S. College of Engineering, Bangalore, organized by the IEEE Women in Engineering Affinity Group, Bangalore Section. This recognition highlights the team’s contribution to advancing research in image processing and wireless communication technologies.

IEEE BANGALORE SECTION

ICWITE 2025

CERTIFICATE

OF APPRECIATION

This certificate is presented to

Naeem Ahmed, Arun Ananthanarayanan, Navya R,
Spoorthi B S, Pushpa Mala S,

for presenting the paper titled

Image Artifact Removal Using DnCNN in Low Bandwidth Wireless Communication

in the 3rd **IEEE International Conference for Women in Innovation, Technology, and Entrepreneurship**, (ICWITE 2025) on 26-27 Sep 2025 organized by **IEEE Women in Engineering Affinity Group Bangalore Section** at B. G. S. College of Engineering, Bangalore.

Prof. Ashwini VR
General Co-Chair
IEEE ICWITE 2025

Dr. Usha Rani K R
General Co-Chair
IEEE ICWITE 2025

Dr. P Deepa Shenoy
General Chair
IEEE ICWITE 2025

Dr. Supraja Eduru
Assistant Professor
Department of ECE

Prof. Kokila.S
Assistant Professor
Department of ECE

Dr. Divyashree H B
Assistant Professor
Department of ECE

Prof. Jaishree R. Devaru
Assistant Professor
Department of ECE

- Dr. Supriya Eduru, Dr. Divyashree H. B, Prof. Kokila S, and Prof. Jaishree R. Devaru, Assistant professors from the Department of Electronics and Communication Engineering, Dayananda Sagar University, have successfully registered a Design Patent titled “Roof-Mount Visual Accident-Detection and Communication Module for Vehicles” (Design No. 462351-001) on June 14, 2025, under the Designs Act, 2000, showcasing the department’s dedication to innovation and smart safety solutions.

INTELLECTUAL PROPERTY INDIA

ORIGINAL

पेटेंट कार्यालय, भारत सरकार — The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 462351-001

तारीख / Date : 14/06/2025

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *ROOF-MOUNT VISUAL ACCIDENT-DETECTION AND COMMUNICATION MODULE FOR VEHICLES* से संबंधित है, का पंजीकरण, वेणी 10-05 में 1.Dayananda Sagar University 2. Supraja Eduru 3.Divyashree H B 4.Kokila S 5.Jaishree R Devaru के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-05 in respect of the application of such design to *ROOF-MOUNT VISUAL ACCIDENT-DETECTION AND COMMUNICATION MODULE FOR VEHICLES* in the name of 1.Dayananda Sagar University 2. Supraja Eduru 3.Divyashree H B 4.Kokila S 5.Jaishree R Devaru.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि / Date of Issue : 13/10/2025

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

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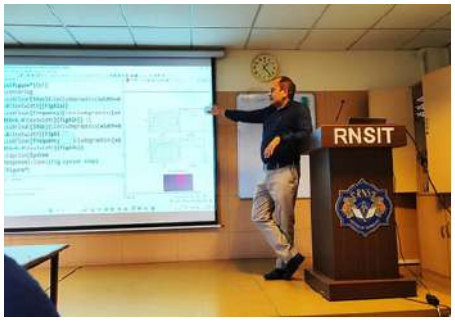
Dr. Arun Balodi
Chairperson & Professor
Department of ECE

- Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, Dayananda Sagar University, served as a Resource Expert for the workshop titled “Crafting Research Excellence” held on October 25, 2025, at RNS Institute of Technology, Bengaluru.



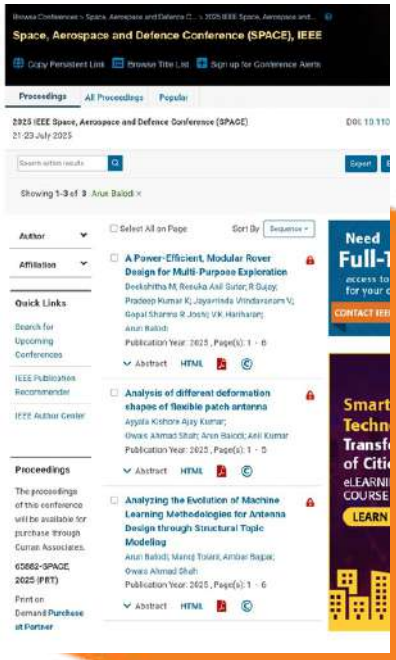
- Dr. Arun Balodi, Professor and Chairman of the Department of Electronics and Communication Engineering, Dayananda Sagar University, delivered an inspiring session on “Innovate, Inspire, Impact the IEEE Way” during the IEEE Membership Drive 2025 held on October 15, 2025, at the Harohalli Campus.

- Dr. Arun Balodi, Professor and Chairman, Department of ECE, Dayananda Sagar University, guided the IEEE Day 2025 celebrations, which showcased innovation, collaboration, and technological spirit. The event featured the IEEE Membership Development and Collaboration (MDC) Drive, along with activities like Quizithon, Project Conclave, and Hack Verse organized across departments, fostering creativity and interdisciplinary learning.

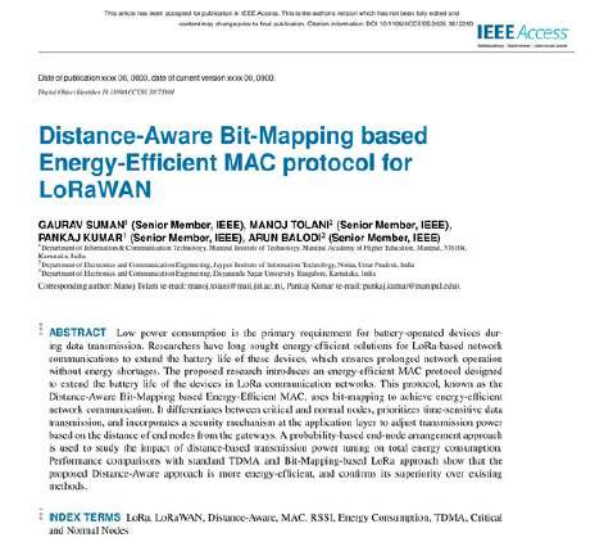
- Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, Dayananda Sagar University, served as Chief Guest and Resource Speaker at the IEEE Membership Drive Program organized by the IEEE Student Branch and EMBS Chapter, ACS College of Engineering, on October 9, 2025. He delivered an insightful talk on “The Role of Professional Societies in Career Management,” highlighting the value of IEEE membership in promoting professional growth, collaboration, and research excellence.

- Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, Dayananda Sagar University, is serving as the Conference General Chair for the 5th International Conference on Optoelectronic Information and Functional Materials (OIFM 2026).

- Dr. Arun Balodi, Professor and Chairman,and Mr. Owais Ahmad Shah,Department of Electronics and Communication Engineering, Dayananda Sagar University, have published multiple research papers at the 2025 IEEE Space, Aerospace and Defence Conference (SPACE) held from July 21–23, 2025. Their research contributions includes, “Analyzing the Evolution of Machine Learning Methodologies for Antenna Design through Structural Topic Modeling”, “Analysis of Different Deformation Shapes of Flexible Patch Antenna”, and “A Power-Efficient Modular Rover Design for Multi-Purpose Exploration”.



- Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, Dayananda Sagar University, has published a research article titled “Distance-Aware Bit-Mapping Based Energy-Efficient MAC Protocol for LoRaWAN” in IEEE Access under Early Access.



IEEE Access

Distance-Aware Bit-Mapping based Energy-Efficient MAC protocol for LoRaWAN

GAURAV SUMAN[1] (Senior Member, IEEE), MANOJ TOLANI[2] (Senior Member, IEEE), PANKAJ KUMAR[1] (Senior Member, IEEE), ARUN BALODI[3] (Senior Member, IEEE)

ABSTRACT Low power consumption is the primary requirement for battery-operated devices during data transmission. Researchers have long sought energy efficient solutions for LoRa-based network communications to extend the battery life of these devices, which ensures prolonged network operation without energy shortages. The proposed research introduces an energy-efficient MAC protocol designed to extend the battery life of the devices in LoRa communication networks. This protocol, known as the Distance-Aware Bit-Mapping based Energy-Efficient MAC, uses bit-mapping to achieve energy-efficient network communication. It differentiates between critical and normal nodes, prioritizes time-sensitive data transmission, and incorporates a security mechanism at the application layer to adjust transmission power based on the distance of end nodes from the gateways. A probability-based end-node arrangement approach is used to study the impact of distance-based transmission power tuning on total energy consumption. Performance comparisons with standard TDMA and Bit-Mapping-based LoRa approach show that the proposed Distance-Aware approach is more energy-efficient, and confirms its superiority over existing methods.

INDEX TERMS LoRa, LoRaWAN, Distance-Aware, MAC, RSSI, Energy Consumption, TDMA, Critical and Normal Nodes

- Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, Dayananda Sagar University, participated as an invited speaker at the IEEE Faculty Conclave 2025, organized by the IEEE Mangalore Subsection at Bearys Institute of Technology, Mangalore, on September 20, 2025.

Dr. Nur Alom Talukdar
Assistant Professor
Department of CST

- Dr. Nur Alom Talukdar, Assistant Professor, delivered an invited talk on the Role of ICT in Modern Healthcare at one of the premier health and paramedical educational institutions in Assam on 03/10/2025.

Prof. Vinayaka V M
Assistant Professor
Department of CST

- Prof. Vinayaka has participated 14-Week Webinar Series Faculty Development Programme (FDP) on “Quantum Algorithms Using QUniverse” organised by the C-DAC Bengaluru, held from 09th July to 08th October, 2025.

Dr. Santhosh Kumar J
Associate Professor
Department of CST

Dr M Shahina Parveen
Professor & Chairperson
Department of CST

Dr. Sudha D
Associate Professor
Department of CST

Dr. Ramandeep Kaur
Assistant Professor
Department of CST

Prof. Junaid Mundichipparakkal
Assistant Professor
Department of CST

- Dr. Santosh Kumar J, Dr. M. Shahina Parveen, Dr Sudha D, Dr. Ramandeep Kaur, and Prof. Junaid published a patent on "Contactless Disease Detection System Using Human Aura Image Processing" (Application Number: 202541093838).

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202541093838
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/09/2025
APPLICANT NAME	1 . Santosh Kumar Jankatti 2 . Dayananda Sagar University
TITLE OF INVENTION	Contactless Disease Detection System Using Human Aura Image Processing
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	[redacted]
ADDITIONAL-EMAIL (As Per Record)	[redacted]
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	31/10/2025

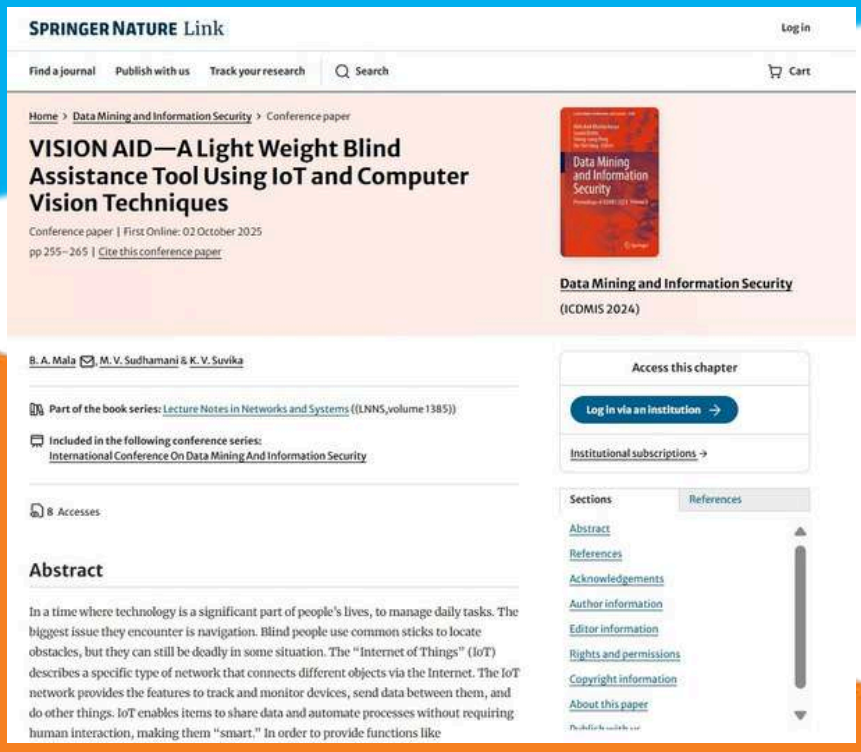
Dr. Santhosh Kumar J
Associate Professor
Department of CST

- Dr. Santosh Kumar J published a patent on "A System and Method for Automatic Sentence Identification from Indian Sign Language using BiGRU Sequential Deep Learning Pipeline" (Application Number: 202541090804).

- Dr. Santosh Kumar J published a patent on "Wearable Sweat Biosensor Patch for Non-Inactive Health Monitoring" (Application Number: 202541094988) and "Method and System for Multi-Objective Optimization of AI Workloads Using Carbon Intensity and Renewable Energy Forecasting (Application Number: 202541093796).

Prof. Mala B A
Assistant Professor
Department of CSE

- Prof. Mala B A, Assistant Professor, Department of CSE, published a research paper titled “VISION AID—A Light Weight Blind Assistance Tool Using IoT and Computer Vision Techniques” in the Scopus-indexed Springer LNNS series “Data Mining and Information Security” Proceedings of ICDMIS 2024, Volume 1, ISBN 978-981-96-6046-9.



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Conference paper | First Online: 02 October 2025

pp 255–265 | Cite this conference paper

Data Mining and Information Security

(ICDMIS 2024)

B. A. Mala, M. V. Sudhamani & K. V. Suvika

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 1385))

Included in the following conference series: International Conference On Data Mining And Information Security

8 Accesses

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Sections References

Abstract

References

Acknowledgements

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About this paper

Abstract

In a time where technology is a significant part of people's lives, to manage daily tasks. The biggest issue they encounter is navigation. Blind people use common sticks to locate obstacles, but they can still be deadly in some situation. The “Internet of Things” (IoT) describes a specific type of network that connects different objects via the Internet. The IoT network provides the features to track and monitor devices, send data between them, and do other things. IoT enables items to share data and automate processes without requiring human interaction, making them “smart.” In order to provide functions like

VISION AID—A Light Weight Blind Assistance Tool Using IoT and Computer Vision Techniques

B. A. Mala, M. V. Sudhamani, and K. V. Suvika

Abstract In a time where technology is a significant part of people's lives, to manage daily tasks. The biggest issue they encounter is navigation. Blind people use common sticks to locate obstacles, but they can still be deadly in some situation. The “Internet of Things” (IoT) describes a specific type of network that connects different objects via the Internet. The IoT network provides the features to track and monitor devices, send data between them, and do other things. IoT enables items to share data and automate processes without requiring human interaction, making them “smart.” In order to provide functions like identification, obstacle avoidance, and navigation support system that combines IoT devices and sensors with computer vision algorithms. The system will utilize object detection algorithms to identify things in the environment, and provide voice-based reaction to the user, informing them about the objects and their location. The system will also use GPS to send location data to a caretaker or family member, allowing them to monitor the user's whereabouts in real time. Apart from this, the system will include an alarm button feature, is used to give information to the caretaker when there is an emergency. The caretaker will receive a message with the user's location, allowing them to offer help quickly. The system will also announce the date, time, and weather conditions to the blind people, and play music for entertainment purposes. The system will use IoT technology to communicate with a cloud-based platform such as ThingSpeak, allowing the user's data to be stored and accessed remotely. This will allow the caretaker to monitor the user's activity and respond to emergency situations quickly and efficiently. The

B. A. Mala (✉)
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M. V. Sudhamani
BMS College of Engineering, Visvesvaraya Technological University, Bengaluru, Belagavi, Karnataka, India
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K. V. Suvika
School of Computing and Information Technology, Reva University, Bengaluru, Karnataka, India
e-mail: kvsuvika@gmail.com

A. Bhattacharya et al. (eds.), Data Mining and Information Security, Lecture Notes in Networks and Systems 1385, https://doi.org/10.1007/978-981-96-6046-9_16

Prof. Diana George
Assistant Professor
Department of CSE

- Prof. Diana George, Assistant Professor, Department of CSE has received “women in research excellence- Global Woman of Science award” from ELEVATEX Awards 2025 at International Conference on Artificial Intelligence and Networking (ICAIN-2025) Organized by BITS Pilani, Dubai Campus in association with Indian Institute of Information Technology, Allahabad Springer LNNS (Indexed in DBLP EI Compendex, INSPEC, SCImago, SCOPUS , WTI AG, zbMATH) on 6th - 7th October 2025.

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

Dr. Pannangi Naresh
Assistant Professor
Department of CSE

Dr. Shreekant Salotagi
Assistant Professor
Department of CSE

Dr. Praveen Kulkarni
Associate Professor
Department of CSE

Dr. Sridhar S K
Associate Professor
Department of CSE

- Dr. RenukaDevi M N, Dr. P Naresh, Dr. Shreekant Salotagi, Assistant Professors and Dr. Praveen Kulkarni, Dr. Sridhar S K, Associate Professors, Department of CSE presented a research paper titled “Predictive Modeling of Cardiovascular Disorders through Hybridized Ensemble Strategies and Deep Neural Architectures for Enhanced Diagnostic Accuracy” at the 7th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2025) organized by RVS College of Engineering and Technology (RVSCET), Coimbatore, India on 6th to 8th October 2025.

ICIDCA IEEE IEEE ComSoc

Certificate of Presentation

This is to certify that

RenukaDevi M N

has successfully presented the paper titled

Predictive Modeling of Cardiovascular Disorders through Hybridized Ensemble Strategies and Deep Neural Architectures for Enhanced Diagnostic Accuracy

at the

7th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2025)
organised by RVS College of Engineering and Technology,
Coimbatore, India on 6-8 October 2025.

Session Chair | *Dr. S. S. Sivaraju, Organising Chair* | *Dr. G. Mohan Kumar, Principal*

Prof. Bharath M B
Assistant Professor
Department of CSE

- Prof. Bharath B, Assistant Professor, Department of CSE presented a research paper titled “Trustworthy AI-Powered Multimodal Biofeedback for Stress Management: An Expainable, Privacy-preserving and Fairness-Aware Framework” at the 7th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2025) organized by RVS College of Engineering and Technology (RVSCET), Coimbatore, India on 6th to 8th October 2025.

Certificate of Presentation

This is to certify that

Bharath B

has successfully presented the paper titled

Trustworthy AI-Powered Multimodal Biofeedback for Stress Management: An Explainable, Privacy-Preserving, and Fairness-Aware Framework

at the

7th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2025)
organised by RVS College of Engineering and Technology,
Coimbatore, India on 6-8, October 2025.

Session Chair

Dr. S. S. Sivaraju
Organising Chair

Dr. G. Mohan Kumar
Principal

Prof. Bharath M B
Assistant Professor
Department of CSE

Prof. Pooja Shree H R
Assistant Professor
Department of CSE

Prof. Mala B A
Assistant Professor
Department of CSE

Dr. George Fernandez I
Associate Professor
Department of CSE

Prof. Sharanabasappa Tadkal
Assistant Professor
Department of CSE(CY)

- Prof. Bharath M B, Prof. Pooja Shree H R, Prof. Mala B A, Prof. Sharanabasappa Tadkal and Dr. George Fernandez I, presented research paper titled “Sustainable IoT for Healthcare: An Energy-Aware Approach for Remote Patient Monitoring” at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF2025) held at St. Joseph’s Institute of Technology (Autonomous), Chennai, TamilNadu, India on 09 & 10, October 2025.

Prof. Sweta Chopdar
Assistant Professor
Department of CSE

Prof. Soumadip Mondal
Assistant Professor
Department of CSE

Prof. Mithun Kumar
Assistant Professor
Department of CSE (DS)

Prof. Sruthi
Assistant Professor
Department of CSE

Prof. Diana George
Assistant Professor
Department of CSE

Dr. George Fernandez I
Associate Professor
Department of CSE

- Prof. Sweta Chopdar, Prof. Soumadip Mondal, Prof. Mithun Kumar, Prof. Sruthi Y, Prof. Diana George, Assistant Professor and Dr. George Fernandez I, Associate Professor, Department of CSE presented a research paper titled “Carbon-Aware AI Workload Scheduling with Renewable Energy Sources” at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF2025) held at St. Joseph’s Institute of Technology (Autonomous), Chennai, TamilNadu, India on 09 & 10, October 2025.


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This certificate is presented to
Sweta Chopdar
Assistant Professor, Department of Computer Science and Engineering
Dayananda Sagar University
Devarakaggalahalli, Harohalli, Kanakapura Road,
South Banglore, India.
for presenting the research paper entitled "Carbon-Aware AI Workload Scheduling with Renewable Energy Sources" at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF 2025) held at St. Joseph's Institute of Technology (Autonomous), Chennai, Tamil Nadu, India on 09th & 10th, October 2025.
Dr. K. Vijayakumar
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Soumadip Mondal
Assistant Professor, Dept of CSE, SoE
Dayananda Sagar University
Devarakaggalahalli, Harohalli, Kanakapura Road,
South Banglore, India.
for presenting the research paper entitled "Carbon-Aware AI Workload Scheduling with Renewable Energy Sources" at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF 2025) held at St. Joseph's Institute of Technology (Autonomous), Chennai, Tamil Nadu, India on 09th & 10th, October 2025.
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This certificate is presented to
Mithun Kumar
Assistant Professor, Dept of CSE, SoE
Dayananda Sagar University
Devarakaggalahalli, Harohalli, Kanakapura Road,
South Banglore, India.
for presenting the research paper entitled "Carbon-Aware AI Workload Scheduling with Renewable Energy Sources" at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF 2025) held at St. Joseph's Institute of Technology (Autonomous), Chennai, Tamil Nadu, India on 09th & 10th, October 2025.
Dr. K. Vijayakumar
Dr. G. Sreekumar
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This certificate is presented to
Diana George
Research Scholar, Department of Computer Science and Engineering
Dayananda Sagar University
Devarakaggalahalli, Harohalli, Kanakapura Road,
South Banglore, India.
for presenting the research paper entitled "Carbon-Aware AI Workload Scheduling with Renewable Energy Sources" at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF 2025) held at St. Joseph's Institute of Technology (Autonomous), Chennai, Tamil Nadu, India on 09th & 10th, October 2025.
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09th - 10th October, 2025
CERTIFICATE
ICECONF 016
This certificate is presented to
Yapalaparvi Sruthi
Assistant Professor, Department of Computer Science and Engineering
Dayananda Sagar University
Devarakaggalahalli, Harohalli, Kanakapura Road,
South Banglore, India.
for presenting the research paper entitled "Carbon-Aware AI Workload Scheduling with Renewable Energy Sources" at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF 2025) held at St. Joseph's Institute of Technology (Autonomous), Chennai, Tamil Nadu, India on 09th & 10th, October 2025.
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ICECONF 016
This certificate is presented to
Dr. George Fernandez. I
Associate Professor, Dept of CSE, SoE
Dayananda Sagar University
Devarakaggalahalli, Harohalli, Kanakapura Road,
South Banglore, India.
for presenting the research paper entitled "Carbon-Aware AI Workload Scheduling with Renewable Energy Sources" at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF 2025) held at St. Joseph's Institute of Technology (Autonomous), Chennai, Tamil Nadu, India on 09th & 10th, October 2025.
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Dr. George Fernandez I
Associate Professor
Department of CSE

Prof. Diana George
Assistant Professor
Department of CSE

- Dr. George Fernandez I, Associate Professor and Prof. Diana George, Assistant Professor, Department of CSE presented a research paper titled “Pattern-Driven Multimodel Brain Imaging Fusion for Early Vision Defect Detection” at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF2025) held at St. Joseph’s Institute of Technology (Autonomous), Chennai, TamilNadu, India on 09 & 10, October 2025.

Dr. George Fernandez I
Associate Professor
Department of CSE

- Dr. George Fernandez I, Associate Professor, Department of CSE presented a research paper titled “TDP-QIMLE: A Novel Temporal Differential Privacy with Quantum-Inspired Multi-Layer Encryption Framework for Secure EHR Data Storage in Cloud Computing” at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF2025) held at St. Joseph’s Institute of Technology (Autonomous), Chennai, TamilNadu, India on 09 & 10, October 2025.

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ICECONF 566
Peer Reviewed

This certificate is presented to

Dr. George Fernandez. I
Associate Professor Dept of CSE, SoE
Dayananda Sagar University
Devarakaggalahalli, Harohalli, Kanakapura Road,
South Banglore, India.

for presenting the research paper entitled "**TDP-QIMLE: A Novel Temporal Differential Privacy with Quantum-Inspired Multi-Layer Encryption Framework for Secure EHR Data Storage in Cloud Computing**" at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF 2025) held at St. Joseph's Institute of Technology (Autonomous), Chennai, Tamil Nadu, India on 09th & 10th, October 2025.

Dr. K. Vijayakumar, Conference Chair
Dr. G. Sreekumar, Convener
Dr. S. Arivazhagan, General Chair

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Dr. George Fernandez I
Associate Professor
Department of CSE

Dr. Revathi V
Associate Professor
Department of CSE

- Dr. George Fernandez I and Dr. Revathi V, Associate Professors, Department of CSE, served as a Session chair at the IEEE Technical sponsored Second International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF2025) held at St. Joseph's Institute of Technology (Autonomous), Chennai, Tamil Nadu, India on 09 & 10, October 2025.

Prof. Sushma D S
Assistant Professor
Department of CSE

- Prof. Sushma D S, Assistant Professor, Department of CSE, has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Explainable AI (XAI): A Deep Dive into AI Transparency and Interpretability at VIT Bhopal University from 06/10/2025 to 11/10/2025.

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It is certified that ***Mrs. SUSHMA D S, Assistant Professor*** *of* ***Dayanand sagar university*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Explainable AI (XAI): A Deep Dive into AI Transparency and Interpretability*** *at* ***VIT Bhopal University*** *from* ***06/10/2025*** *to* ***11/10/2025.***

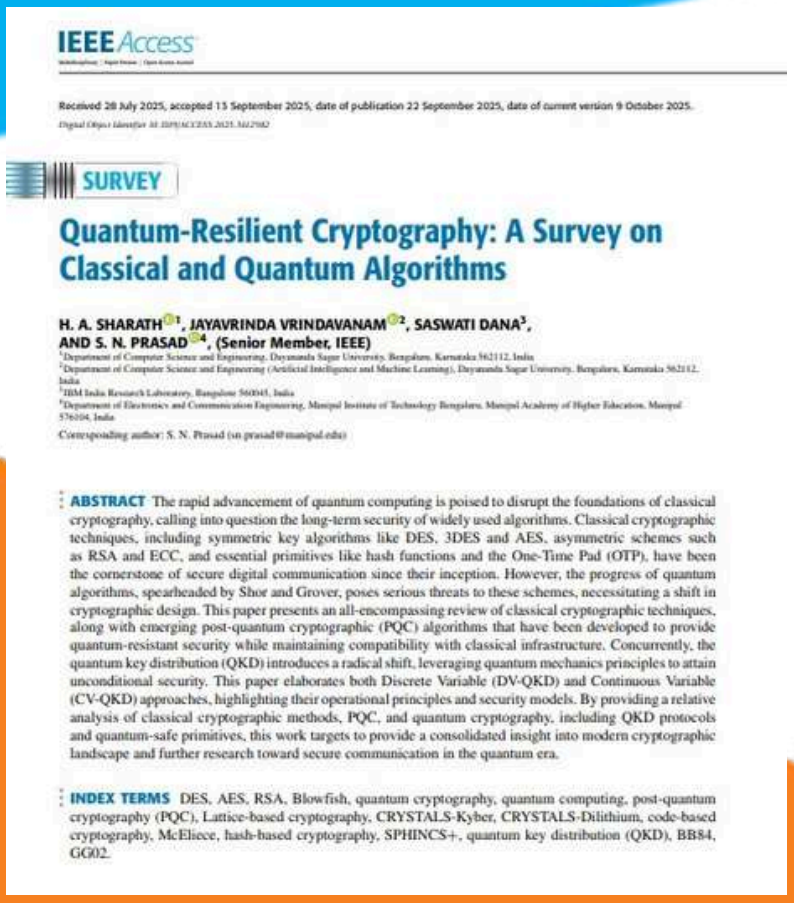
Aanjankumar S
Assistant Professor (Other Institute), Coordinator
VIT Bhopal University

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

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

Prof. Sharath H A
Assistant Professor
Department of CSE

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



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SURVEY

Quantum-Resilient Cryptography: A Survey on Classical and Quantum Algorithms

H. A. SHARATH[1], JAYAVRINDA VRINDAVANAM[2], SASWATI DANA[3], AND S. N. PRASAD[4], (Senior Member, IEEE)

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ABSTRACT The rapid advancement of quantum computing is poised to disrupt the foundations of classical cryptography, calling into question the long-term security of widely used algorithms. Classical cryptographic techniques, including symmetric key algorithms like DES, 3DES and AES, asymmetric schemes such as RSA and ECC, and essential primitives like hash functions and the One-Time Pad (OTP), have been the cornerstone of secure digital communication since their inception. However, the progress of quantum algorithms, spearheaded by Shor and Grover, poses serious threats to these schemes, necessitating a shift in cryptographic design. This paper presents an all-encompassing review of classical cryptographic techniques, along with emerging post-quantum cryptographic (PQC) algorithms that have been developed to provide quantum-resistant security while maintaining compatibility with classical infrastructure. Concurrently, the quantum key distribution (QKD) introduces a radical shift, leveraging quantum mechanics principles to attain unconditional security. This paper elaborates both Discrete Variable (DV-QKD) and Continuous Variable (CV-QKD) approaches, highlighting their operational principles and security models. By providing a relative analysis of classical cryptographic methods, PQC, and quantum cryptography, including QKD protocols and quantum-safe primitives, this work targets to provide a consolidated insight into modern cryptographic landscape and further research toward secure communication in the quantum era.

INDEX TERMS DES, AES, RSA, Blowfish, quantum cryptography, quantum computing, post-quantum cryptography (PQC), Lattice-based cryptography, CRYSTALS-Kyber, CRYSTALS-Dilithium, code-based cryptography, McEliece, hash-based cryptography, SPHINCS+, quantum key distribution (QKD), BB84, GG02.

Dr Gokulakrishnan S
Assistant Professor
Department of CSE

- Dr. Gokulakrishnan S, Assistant Professor, Department of CSE, has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Recent Advances in IoT and AI for a Smarter Future for Revolutionizing Society at Academy of Maritime Education and Training Deemed to be University from 13/10/2025 to 18/10/2025.

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Dr. Revathi V
Associate Professor
Department of CSE

- Prof. Kavyashree I Pattan, Dr. Renukadevi M.N, Prof. Pooja Shree H R, Prof. Nandini K, Prof. Arpita Paria, Assistant Professors, and Dr. Revathi V, Associate Professor, published a paper titled “NeuroGaitAssist: Advanced Gait Analysis for Detecting Neurological Disorders and Aiding Paralysis Patients” in the IEEE during October 2025, which was presented at the 9th International Conference on Inventive Systems and Control (ICISC-2025).

NeuroGaitAssist: Advanced Gait Analysis for Detecting Neurological Disorders and Aiding Paralysis Patients

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Aanjankumar S
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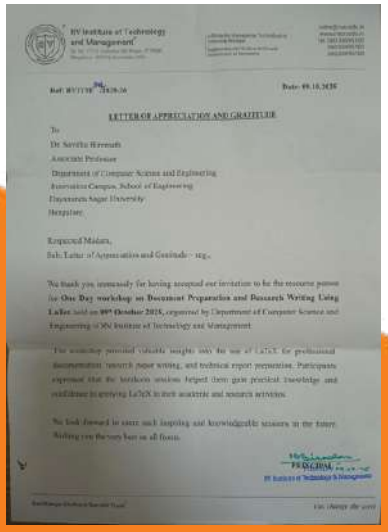
VIT Bhopal University

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

Dr. Savitha Hiremath
Associate Professor
Department of CSE

- Dr. Savitha Hiremath, Associate Professor, Department of CSE, participated as a Resource Person in the One-Day Faculty Development Program on “Document Preparation and Research Writing using LaTeX” organized by the Department of Computer Science and Engineering, RV Institute of Technology and Management, Bengaluru, on 9th October 2025..



LETTER OF APPRECIATION AND GRATITUDE

Prof. Muthu Bala N
Assistant Professor
Department of CSE

- Prof. Muthu Bala. N, Assistant Professor, Department of CSE, presented a research paper titled “New Parent App: A Mobile-based Baby Growth and Milestone Tracker with Chatbot Support” in the three-day International Conference on Sustainable Communication Networks and Application (ICSCN 2025) organized by Bharath Niketan Engineering College, Thimmarasanaickanoor, Aundipatty, Theni Dt, held during 15-17 October 2025.

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XPLORE COMPLIANTISBN 979-8-3315-9420-6
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International Conference on
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Conference Chair
Dr. K. Pounraj

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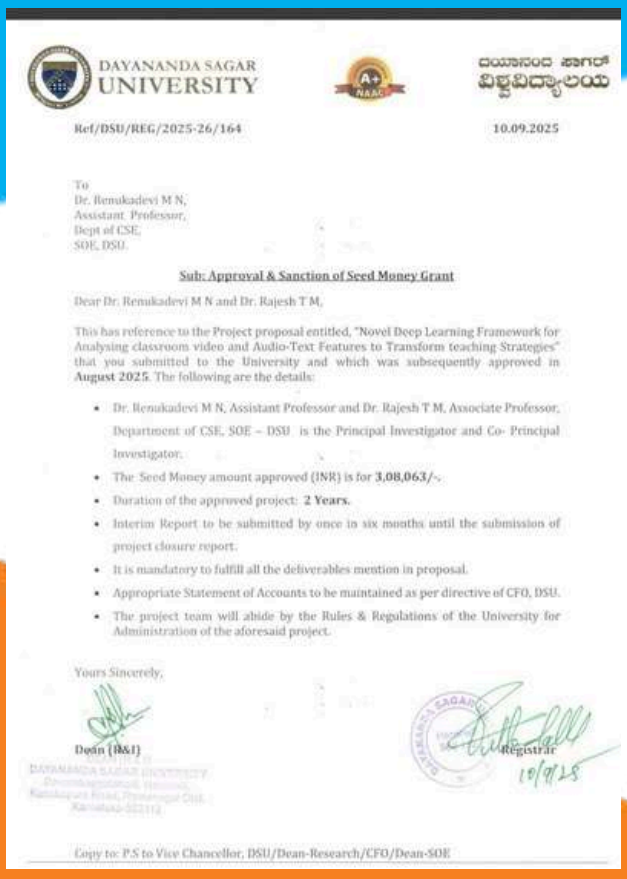
Dr. P. V. Arul Kumar

- Prof. Muthu Bala. N, Assistant Professor, Department of CSE, presented a research paper titled “AI Enabled Smart Healthcare System for Intelligent Patient Management” at the 2nd International Conference on Electronic Circuits and Signaling Technologies, ICECST 2025, organised by Lincoln University College, Petaling Jaya, Malaysia, on 23-25 October 2025.

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

- Dr. Renukadevi M. N., Assistant Professor, Department of CSE, has received a Seed Money Amount of Rs. 3,08,063 as a principal Investigator for the Project Titled “Novel Deep Learning Framework for Analyzing Classroom Video and Audio-Text Features to Transform Teaching Strategies” for 2 years from Dayananda Sagar University during October 2025.



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Ref/DSU/REG/2025-26/164 10.09.2025

To
Dr. Renukadevi M N,
Assistant Professor,
Dept of CSE,
SOE, DSU.

Sub: Approval & Sanction of Seed Money Grant

Dear Dr. Renukadevi M N and Dr. Rajesh T M,

This has reference to the Project proposal entitled, "Novel Deep Learning Framework for Analysing classroom video and Audio-Text Features to Transform teaching Strategies" that you submitted to the University and which was subsequently approved in **August 2025**. The following are the details:

- Dr. Renukadevi M N, Assistant Professor and Dr. Rajesh T M, Associate Professor, Department of CSE, SOE – DSU is the Principal Investigator and Co- Principal Investigator.
- The Seed Money amount approved (INR) is for **3,08,063/-**.
- Duration of the approved project: **2 Years.**
- Interim Report to be submitted by once in six months until the submission of project closure report.
- It is mandatory to fulfill all the deliverables mention in proposal.
- Appropriate Statement of Accounts to be maintained as per directive of CFO, DSU.
- The project team will abide by the Rules & Regulations of the University for Administration of the aforesaid project.

Yours Sincerely,

Dean (R&I) Registrar

10/9/25

Copy to: P.S to Vice Chancellor, DSU/Dean-Research/CFO/Dean-SOE

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Department of CSE

Dr. Pannangi Naresh
Assistant Professor
Department of CSE

Dr. Naitik S T
Assistant Professor
Department of CSE

Dr. Shreekant Salotagi
Assistant Professor
Department of CSE

- Dr. Sridhar S K, Dr. Praveen Kulkarni, Associate Professors, Dr Naresh P, Dr. Naitik S T, Dr. Shreekant Salotagi, Assistant Professors, and Mr. Jayesh Ranjan(ENG23CS0326), 3rd year student, Department of CSE successfully presented a research paper titled “Detection of Speech Oriented Fraud Using Supervised Machine Learning Algorithms” and received the “Best Paper award” in the 2nd International Conference on Software, Systems and Information Technology (SSITCON-2025) completed SSITCON -2025 Conference on 17th & 18th October, 2025.

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in the International Conference on Software, Systems and Information Technology (SSITCON-2025) organized by the Department of Computer Science Engineering (Cyber Security) in association with Computer Science & Engineering, Sri Siddhartha Institute of Technology, Tumakuru on 17th -18th October, 2025.

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Dr. Shaila S. G
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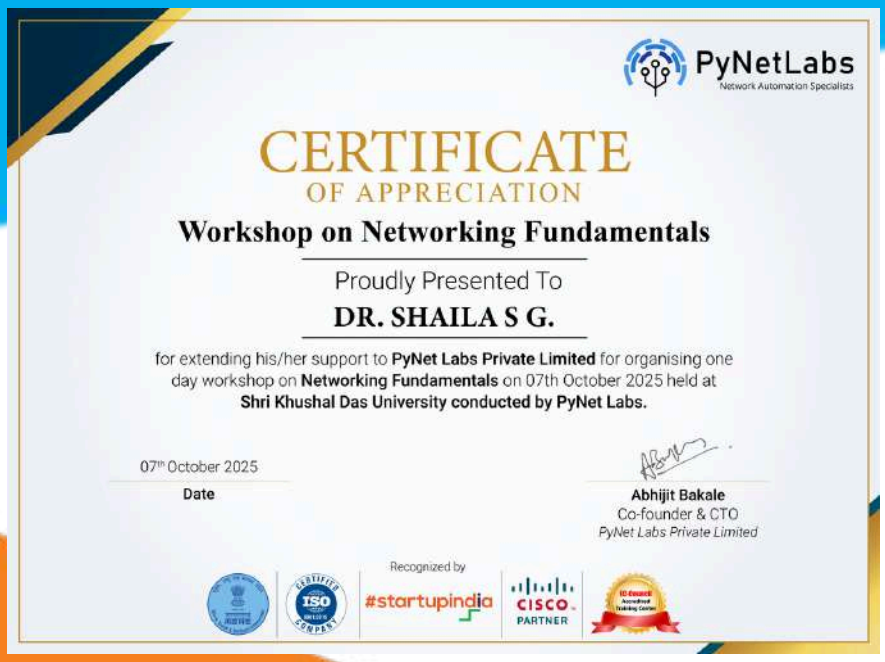
- Dr. Shaila S G for extending her support to PyNet Labs Private Limited for organising a day workshop on Networking Fundamentals on 7th October 2025, held at Shri Khushal Das University, conducted by PyNet Labs.



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Assistant Professor
Department of CSE (DS)

- Dr. Santhosh Kumar G. & Dr. U. Pavan Kumarhaves successfully presented the paper titled “Trustworthy AI-Powered Multimodal Biofeedback for Stress Management: An Explainable, Privacy-Preserving and Fairness-Aware Framework” at the 7th International Conference on Innovative Data Communication Technologies and Applications (ICIDCA 2025) organised by RVS College of Engineering and Technology, Coimbatore, India, on 6th to 08th October 2025.

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

- Dr. Shaila S G & Prof. Shivamma D has participated & presented the paper titled "Deep Learning based analysis for facial expression recognition of simple & complex emotions in Healthcare" in the 3rd IEEE Conference for Women in Innovation, Technology and Entrepreneurship (ICWITE 2025) on 26-27 Sep 2025 organized by IEEE Women in Engineering Affinity Group Bangalore Section at B.G.S College of Engineering, Bangalore.

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for presenting the paper titled

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Assistant Professor
Department of CSE (DS)

- Prof. Monish L. & Dr. Shaila S G have participated & presented the paper titled “Mpox Risk Forecasting: Integrating Neural Networks and Public Sentiment Analysis” in the 3rd IEEE Conference for Women in Innovation, Technology and Entrepreneurship (ICWITE 2025) on 26-27 Sep 2025, organized by IEEE Women in Engineering Affinity Group Bangalore Section at B.G.S College of Engineering, Bangalore.

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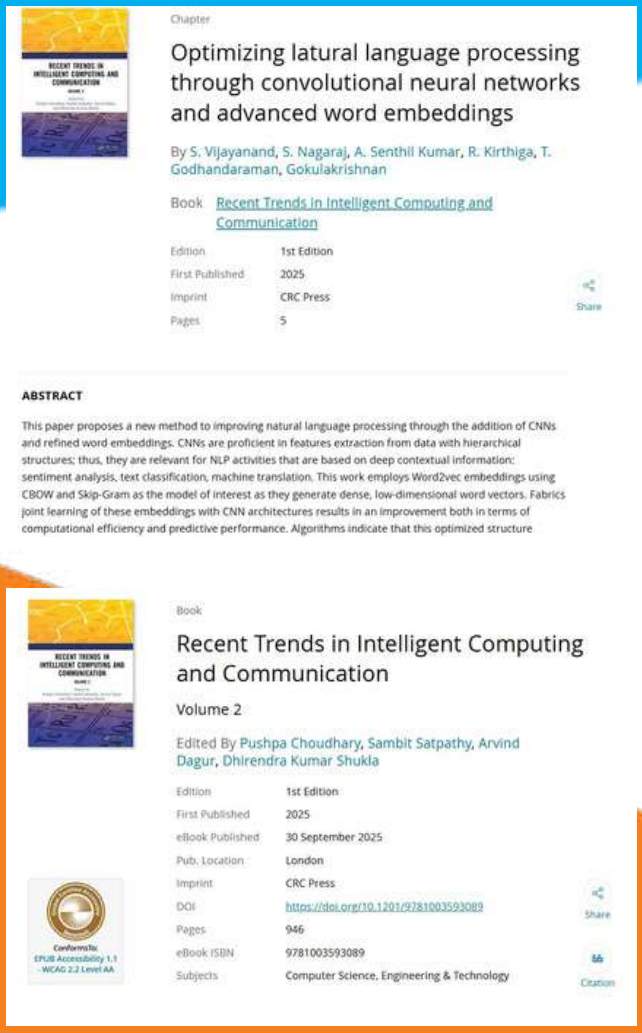
Assistant Professor
Department of CSE (DS)

- Prof. Godhandaraman T has published a book chapter titled “Optimizing Natural Language Processing through Convolutional Neural Networks and advanced word embeddings” in Recent Trends in Intelligent Computing and Communication on 30th September 2025 by CRC Press, London.



Chapter

Optimizing latural language processing through convolutional neural networks and advanced word embeddings

By S. Vijayanand, S. Nagaraj, A. Senthil Kumar, R. Kirthiga, T. Godhandaraman, Gokulakrishnan

Book Recent Trends in Intelligent Computing and Communication

Edition	1st Edition
First Published	2025
Imprint	CRC Press
Pages	5

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ABSTRACT

This paper proposes a new method to improving natural language processing through the addition of CNNs and refined word embeddings. CNNs are proficient in features extraction from data with hierarchical structures; thus, they are relevant for NLP activities that are based on deep contextual information: sentiment analysis, text classification, machine translation. This work employs Word2vec embeddings using CBOW and Skip-Gram as the model of interest as they generate dense, low-dimensional word vectors. Fabrics joint learning of these embeddings with CNN architectures results in an improvement both in terms of computational efficiency and predictive performance. Algorithms indicate that this optimized structure

Book

Recent Trends in Intelligent Computing and Communication

Volume 2

Edited By Pushpa Choudhary, Sambit Satpathy, Arvind Dagur, Dhirendra Kumar Shukla

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eBook ISBN	9781003593089
Subjects	Computer Science, Engineering & Technology

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Dr. Sunil Luthra
Director & Bureau Head
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Prof. Shivamma D
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Department of CSE (DS)

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

Dr. George Fernandez I
Associate Professor
Department of CSE

Dr. Navya R
Assistant Professor
Department of ECE

Dr. Shaila S G, Prof. Shivamma D, Dr. Santhosh Kumar G, Dr. George Fernandez I, and Dr. Navya R for presenting the research paper entitled "Pharmaceutical Quality Assurance via Transformer- Based Deep Learning Models for Automated Tablet Defect Detection" at The IEEE Technical sponsored 2nd International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF 2025) held at St. Joseph's Institute of Technology, Chennai on 09th & 10th October 2025.

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

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

- Dr. Suresh A. & Prof. Sindhu A. have successfully presented the paper titled "Semantic Information Retrieval using Transformer-based Embeddings and Vector Similarity Search" at the 7th International Conference on Innovative Data Communication Technologies and Applications (ICIDCA 2025) organised by RVS College of Engineering and Technology, Coimbatore, India, from 6th to 08th October 2025.

Certificate of Presentation

This is to certify that

Sindhu A

has successfully presented the paper titled

Semantic Information Retrieval using Transformer-based Embeddings and Vector Similarity Search

at the

7th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2025) organised by RVS College of Engineering and Technology, Coimbatore, India on 6-8, October 2025.

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Suresh A

has successfully presented the paper titled

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at the

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Session Chair — Dr. S. S. Sivaraju, Organising Chair — Dr. G. Mohan Kumar, Principal

- Dr. Suresh A. & Prof. Sindhu A. have successfully presented the paper titled "Web-based Real-Time Detection of Compound Facial Emotions with Deep Learning" at the 7th International Conference on Innovative Data Communication Technologies and Applications (ICIDCA 2025) organised by RVS College of Engineering and Technology, Coimbatore, India, on 6th to 08th October 2025.

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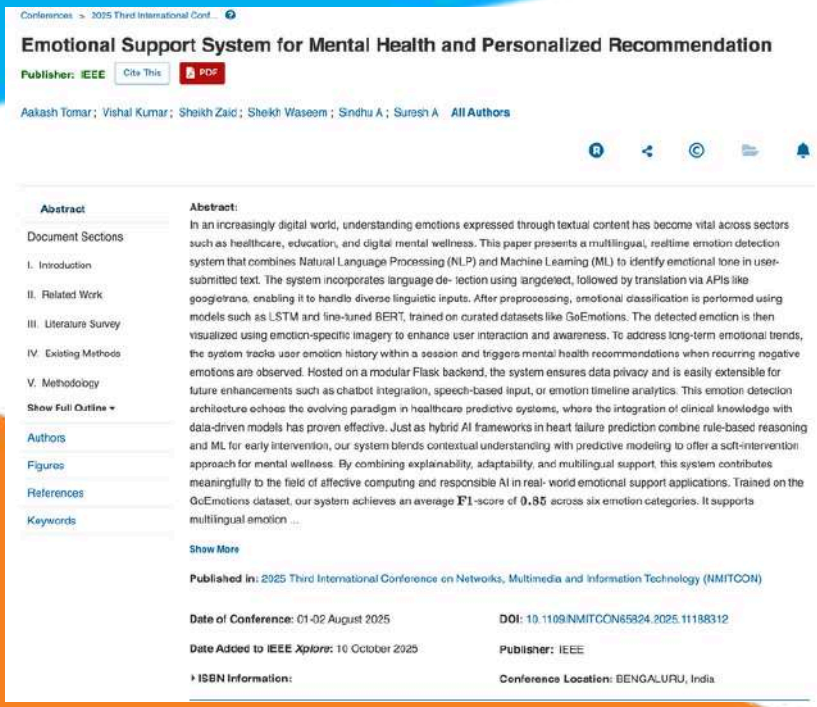
Session Chair — Dr. S. S. Sivaraju, Organising Chair — Dr. G. Mohan Kumar, Principal

- Prof. Sindhu A. & Dr. Suresh published a paper titled “Emotional Support System for Mental Health and Personalized Recommendation” at the IEEE 2025 Third International Conference on Networks, Multimedia and Information Technology (NMITCON 2025) held in Bengaluru, India.



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Abstract

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Keywords

Abstract:

In an increasingly digital world, understanding emotions expressed through textual content has become vital across sectors such as healthcare, education, and digital mental wellness. This paper presents a multilingual, realtime emotion detection system that combines Natural Language Processing (NLP) and Machine Learning (ML) to identify emotional tone in user-submitted text. The system incorporates language de- tection using langdetect, followed by translation via APIs like googletrans, enabling it to handle diverse linguistic inputs. After preprocessing, emotional classification is performed using models such as LSTM and fine-tuned BERT, trained on curated datasets like GoEmotions. The detected emotion is then visualized using emotion-specific imagery to enhance user interaction and awareness. To address long-term emotional trends, the system tracks user emotion history within a session and triggers mental health recommendations when recurring negative emotions are observed. Hosted on a modular Flask backend, the system ensures data privacy and is easily extensible for future enhancements such as chatbot integration, speech-based input, or emotion timeline analytics. This emotion detection architecture echoes the evolving paradigm in healthcare predictive systems, where the integration of clinical knowledge with data-driven models has proven effective. Just as hybrid AI frameworks in heart failure prediction combine rule-based reasoning and ML for early intervention, our system blends contextual understanding with predictive modeling to offer a soft-intervention approach for mental wellness. By combining explainability, adaptability, and multilingual support, this system contributes meaningfully to the field of affective computing and responsible AI in real- world emotional support applications. Trained on the GoEmotions dataset, our system achieves an average $\mathbf{F1}$-score of $\mathbf{0.85}$ across six emotion categories. It supports multilingual emotion ...

Show More

Published in: 2025 Third International Conference on Networks, Multimedia and Information Technology (NMITCON)

Date of Conference: 01-02 August 2025

DOI: 10.1109/NMITCON65824.2025.11188312

Date Added to IEEE *Xplore*: 10 October 2025

Publisher: IEEE

ISBN Information:

Conference Location: BENGALURU, India

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

- Prof. Sindhu A certified as an Oracle Cloud Infrastructure Data Science Professional upon successfully completing the global certification course offered by Oracle.

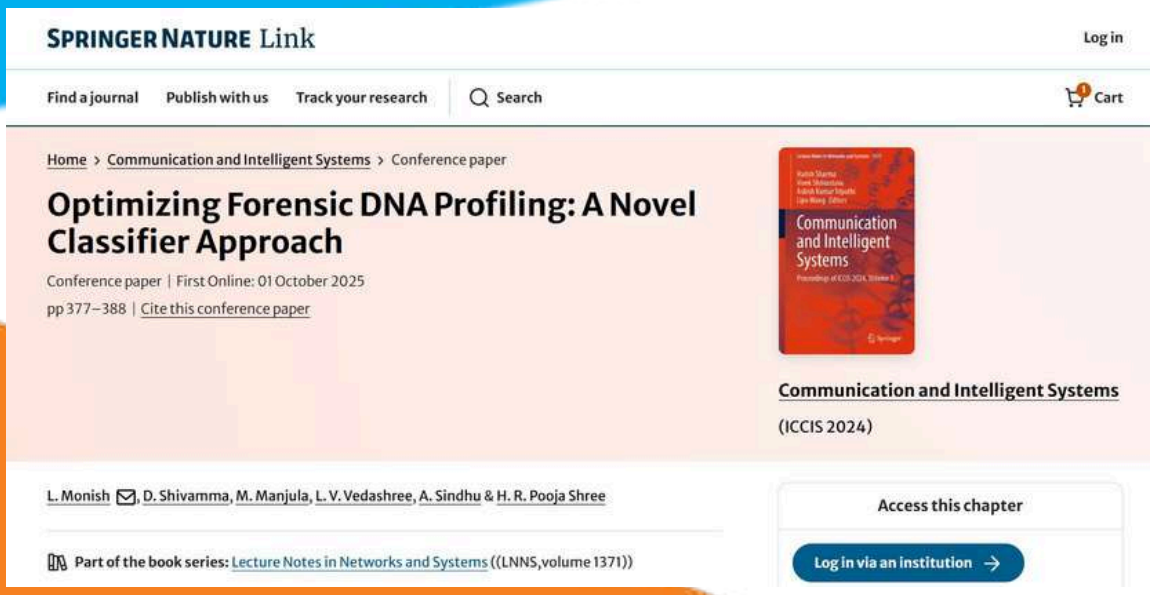
Prof. Monish L
Assistant Professor
Department of CSE (DS)

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

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

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

- Prof. Monish L, Prof. Shivamma D, Prof. Manjula M, & Prof. Sindhu A. Published paper titled "Optimizing Forensic DNA Profiling: A Novel Classifier Approach" In: Sharma, H., Shrivastava, V., Tripathi, A.K., Wang, L. (eds) Communication and Intelligent Systems. ICCIS 2024. Lecture Notes in Networks and Systems, vol 1371. Springer, Singapore.



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Home > Communication and Intelligent Systems > Conference paper

Optimizing Forensic DNA Profiling: A Novel Classifier Approach

Conference paper | First Online: 01 October 2025

pp 377–388 | Cite this conference paper

Communication and Intelligent Systems

(ICCIS 2024)

L. Monish, D. Shivamma, M. Manjula, L. V. Vedashree, A. Sindhu & H. R. Pooja Shree

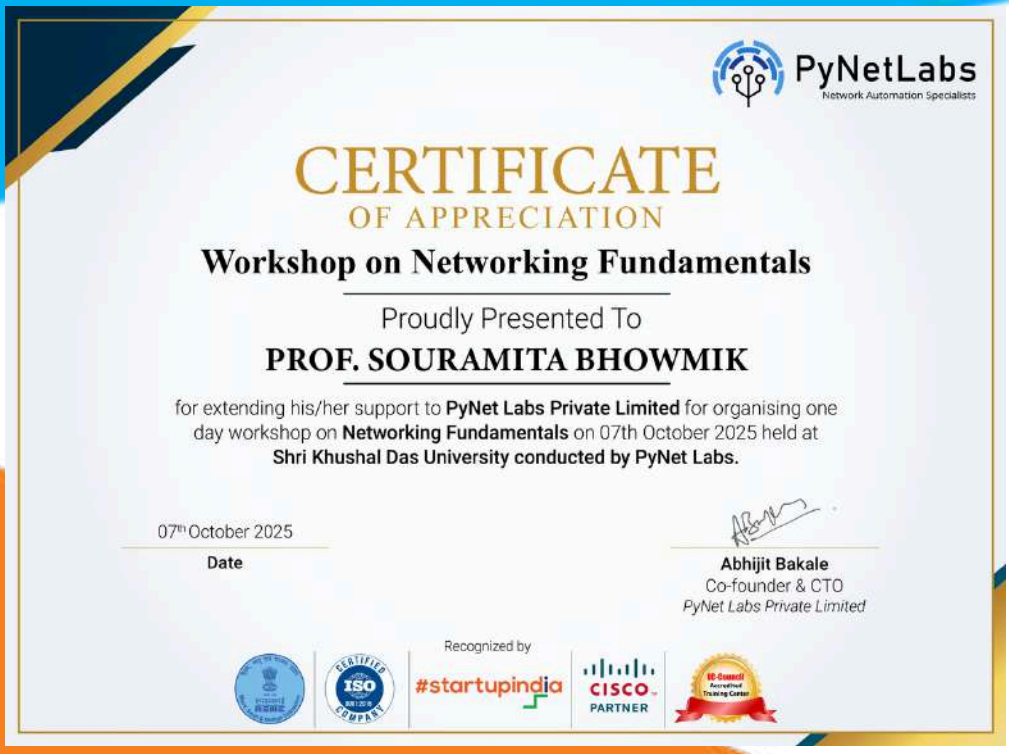
Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 1371))

Access this chapter

Log in via an institution

Prof. Souramita Bhowmik
Assistant Professor
Department of CSE (DS)

- Prof. Souramita Bhowmik for extending her support to PyNet Labs Private Limited for organising a day workshop on Networking Fundamentals on 7th October 2025, held at Shri Khushal Das University, conducted by PyNet Labs.



PyNetLabs
Network Automation Specialists

CERTIFICATE
OF APPRECIATION

Workshop on Networking Fundamentals

Proudly Presented To

PROF. SOURAMITA BHOWMIK

for extending his/her support to **PyNet Labs Private Limited** for organising one day workshop on **Networking Fundamentals** on 07th October 2025 held at **Shri Khushal Das University conducted by PyNet Labs.**

07th October 2025
Date

Abhijit Bakale
Co-founder & CTO
PyNet Labs Private Limited

Recognized by
#startupindia
CISCO PARTNER

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

- Dr. U. Pavan Kumar acted as Reviewer for the 2nd International Conference on Software, Systems and Information Technology (SSITCON-2025), organized by the Department of CSE(Cyber Security) in association with CSE, Sri Siddhartha Institute of Technology (SSIT), Tumkur, Karnataka, on 17th-18th October 2025.

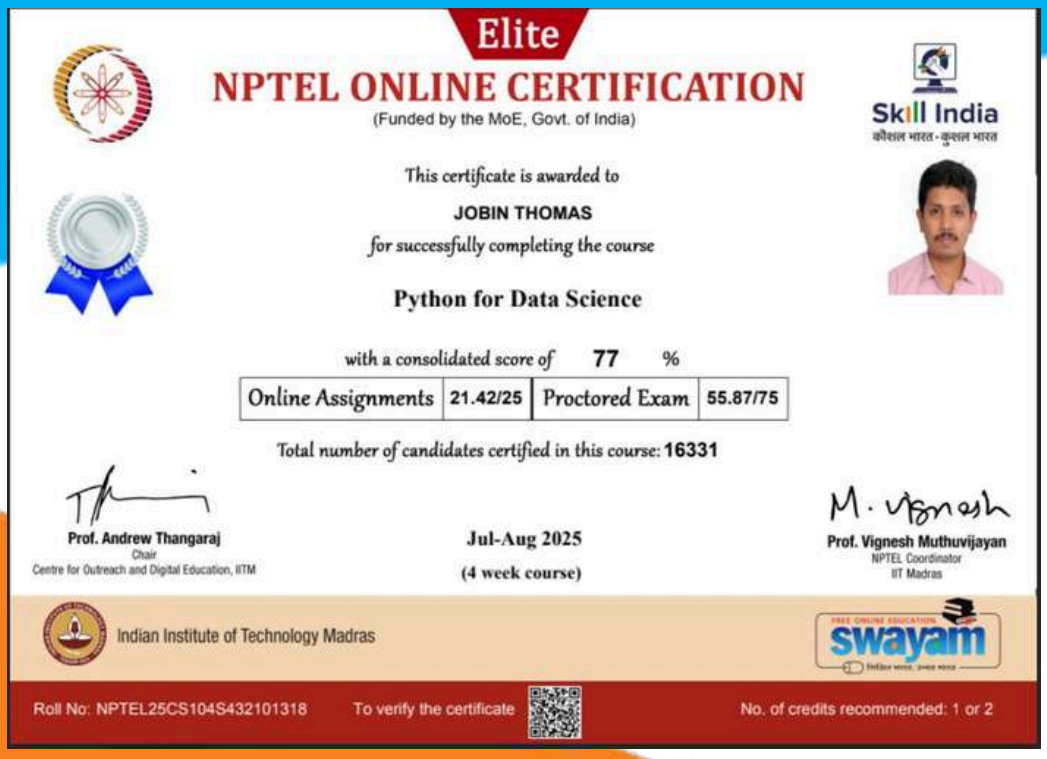
- Dr. U. Pavan Kumar acted as Reviewer for the International Conference on Communication, Computer and Information Technology (IC3IT-2025) organized at Mysuru Royal Institute of Technology, Mandya, India, on 24th & 25th October 2025.

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

- Dr Suresh A certified as an Oracle Cloud Infrastructure Data Science Professional upon successfully completing the global certification course offered by Oracle.

Dr. Jobin Thomas
Assistant Professor
Department of CSE (DS)

- Dr. Jobin Thomas has successfully completed the NPTEL Online Certification course on Python for Data Science with a consolidated score of 77% under the Indian Institute of Technology Madras during July-August 2025.



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

JOBIN THOMAS

for successfully completing the course

Python for Data Science

with a consolidated score of 77 %

Online Assignments	21.42/25	Proctored Exam	55.87/75

Total number of candidates certified in this course: 16331

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

Jul-Aug 2025
(4 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL25CS104S432101318 To verify the certificate No. of credits recommended: 1 or 2

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

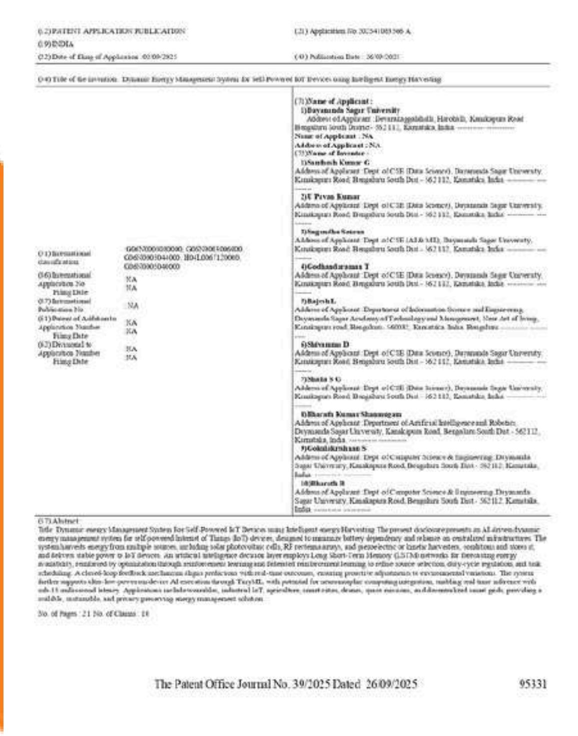
Prof. Shivamma D
Assistant Professor
Department of CSE (DS)

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

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

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

- Dr. Santhosh Kumar G, Dr. U. Pavan Kumar, Prof. Godhandaraman T, Prof. Shivamma D & Dr. Shaila S G have published a patent titled, Dynamic Energy Management System for Self-Powered IoT Devices using Intelligent Energy Harvesting on 26th September 2025 with Application No: 202541083566



(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(54) Title of the invention : Dynamic Energy Management System for Self-Powered IoT Devices using Intelligent Energy Harvesting

(71) Name of Applicant :
1) Dayananda Sagar University

(72) Name of Inventor :
1) Santhosh Kumar G
2) U Pavan Kumar
4) Godhandaraman T
5) Rajesh L
6) Shivamma D
7) Shaila S G
8) Bharath Kumar Shanmugam
9) Gokulakrishnan S
10) Bharath B

(57) Abstract

The Patent Office Journal No. 39/2025 Dated 26/09/2025 95331

Dr. Shreeganesh Subraya Hegde
Assistant Professor
Department of Chemistry

- Dr. Shreeganesh Subraya Hegde, Associate Professor of Chemistry, and his team have published a critical review article titled “Advancements in Nonenzymatic Electrochemical Cholesterol Detection: Fostering Material Innovation with Biosensing Technologies” in the prestigious Sensors & Diagnostics journal (IF 4.1) of the Royal Society of Chemistry (RSC), with Dr. Hegde serving as the corresponding author.

Sensors & Diagnostics

ROYAL SOCIETY OF CHEMISTRY

CRITICAL REVIEW

View Article Online

Check for updates

Cite this: DOI: 10.1039/d5sd00082c

Advancements in nonenzymatic electrochemical cholesterol detection: fostering material innovation with biosensing technologies

Sushmitha S.,[a] Shreeganesh Subraya Hegde,[a*b] Lavanya Rao,[a] Varsha G.[a] and Badekai Ramachandra Bhat[a*]

Cholesterol, a sterol lipid, is vital for various biological phenomena encompassing metabolism and cell functioning. Nevertheless, drastic changes in cholesterol levels will lead to severe cardiovascular disorders. The development of point-of-care technology plays a prominent role in frequent and pinpoint monitoring of cholesterol changes. The introduction of enzymatic biosensors revolutionized cholesterol detection; however, these sensors face significant challenges, including restricted stability, high expense, and sensitivity to environmental conditions. This review highlights the advancements in non-enzymatic electrochemical cholesterol biosensors, focusing on the application of novel materials, including metals and metal oxides, carbon and graphene-based materials, polymeric materials, MOFs, MXenes, photoelectrochemical materials, and advanced materials and composites, to enhance sensitivity, selectivity, and stability. Particular emphasis is placed on electrochemical techniques, material modifications, and their influence on sensing performance. For ease of comprehension and evaluation, standard statistics have been presented in a tabular format. Despite significant advancements, challenges such as miniaturization, reproducibility, and real-sample analysis persist. This review underscores the potential of nonenzymatic electrochemical biosensors to transform biosensing diagnostics and emphasizes the need for continued innovation in materials science and device integration.

Received 30th May 2025,
Accepted 6th October 2025

DOI: 10.1039/d5sd00082c

rsc.li/sensors

- Dr. Shreeganesh Hegde, has achieved a remarkable milestone with his one of the research articles titled “Electrochemical performance and structural evolution of spray pyrolyzed Mn_3O_4 thin films in different aqueous electrolytes: effect of anions and cations” being featured in the “Themed Collection of RSC Advances: Energy Chemistry Year in Review 2024”, published by the Royal Society of Chemistry (RSC), UK.

Issue 41, 2024 Previous Article Next Article

From the journal: RSC Advances

Electrochemical performance and structural evolution of spray pyrolyzed Mn_3O_4 thin films in different aqueous electrolytes: effect of anions and cations†

Check for updates

Pramitha Adoor,[a] Shreeganesh Subraya Hegde,[b] Badekai Ramachandra Bhat,[b] Saian D. George[c] and Ravisrakash Yeendyuul[a]

Author affiliations

Abstract

This work presents the impact of cycling in different cationic and anionic aqueous electrolytes on the electrochemical storage performance of the Mn_3O_4 thin film electrode prepared using the chemical pyrolysis method. Studies on the as-deposited electrode confirmed the formation of Mn_3O_4 phase. Extensive electrochemical analysis was performed using Na_2SO_4, NaCl, Li_2SO_4, K_2SO_4, and $MgSO_4$ electrolytes to examine the influence of cations and anions on charge storage behaviour. Considerable changes were observed in the specific capacitances owing to different ionic sizes as well as hydrated ionic radius of the electrolyte ions. Accordingly, the electrode unveiled a good performance showing a specific capacitance of around 187 F g^{-1} at 0.5 A g^{-1} in K_2SO_4 electrolyte. Further, the electrode properties are examined after 500 CV cycles to trace the changes in the structural and morphological properties. X-ray diffraction (XRD) and Raman spectroscopic studies illustrate a partial phase transformation of electrodes from Mn_3O_4 to MnO_2 irrespective of the electrolytes. These results are further corroborated with X-ray photoelectron spectroscopic (XPS) analysis where there was an increment in the oxidation state of manganese. It has been observed that the surface properties were significantly changed with cycling, as manifested by the wettability studies of the electrodes. The obtained results brings out the significance of electrolyte ions on the charge storage characteristics of Mn_3O_4 thin film electrodes in light of their possible application in electrochemical capacitors.

- Dr. Shreeganesh Hegde has served as a reviewer for several reputed Q1 Elsevier journals, including Journal of Energy Storage (IF 9.8), Renewable Energy (IF 9.1), Results in Engineering (IF 7.9), and Waste Management (IF 7.1).

ELSEVIER

Review History Report

Shreeganesh Subraya Hegde

From: 1 October 2025 To: 31 October 2025

Total journals reviewed for:	4
Total reviews completed:	15
Journal of Energy Storage	6
Renewable Energy	1
Results in Engineering	6
Waste Management	2

ELSEVIER

Results in Engineering

Certificate of Reviewing

Awarded for 6 reviews in October 2025
presented to

SHREEGANESH SUBRAYA HEGDE

in recognition of the review contributed to the journal

The Editors of Results in Engineering

ELSEVIER

Journal of Energy Storage

Certificate of Reviewing

Awarded for 28 reviews between July 2024 and October 2025
presented to

SHREEGANESH SUBRAYA HEGDE

in recognition of the review contributed to the journal

The Editors of Journal of Energy Storage

ELSEVIER

Waste Management

Certificate of Reviewing

Awarded for 2 reviews in October 2025
presented to

SHREEGANESH SUBRAYA HEGDE

in recognition of the review contributed to the journal

The Editors of Waste Management

ELSEVIER

Renewable Energy

Certificate of Reviewing

Awarded for 2 reviews between August 2025 and October 2025
presented to

SHREEGANESH SUBRAYA HEGDE

in recognition of the review contributed to the journal

The Editors of Renewable Energy

Prof. Trupthi Rao
Assistant Professor
Department of CSE(AIML)

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

JSS MAHAVIDYAPEETHA
JSS SCIENCE AND TECHNOLOGY UNIVERSITY
Sri Jayachamarajendra College of Engineering
(Constituent College of JSS Science and Technology University)
JSS Technical Institutions Campus, Mysuru-570006, Karnataka, India

International Conference on Emerging Technologies in Electronics and Green Energy
ICETEG 2025

CERTIFICATE OF APPRECIATION

This is to certify that

Prof. /Mr. /Ms. /Dr. Trupthi Rao, Assistant Professor, Dayananda Sagar University has served as Reviewer for the International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG 2025) held at JSS Science and Technology University, Mysuru, during 10th and 11th October, 2025.

Dr. M.G. Veena
General Chair, ICETEG 2025
JSS STU, Mysuru

Dr. Sudarshan Patil Kulkarni
General Chair, ICETEG 2025
JSS STU, Mysuru

Dr. Bahubali Shiragapur
Professor
Department of CSE(AIML)

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

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

Prof. Bhuvana Mohini T N
Assistant Professor
Department of CSE(AIML)

- Prof. Bhuvana Mohini T. N, Assistant Professor, Department of CSE(AIML), presented her research paper titled “Enhanced Hybrid Deep Learning Model for Alzheimer Disease Diagnosis” at the IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025).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Certificate of Appreciation

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

Bhuvana Mohini T N

has Presented Paper entitled

Enhanced Hybrid Deep Learning Model for Alzheimer Disease Diagnosis

in the IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025) organized at Mysuru Royal Institute of Technology, Mandya, India on 24th and 25th October 2025 in association with IEEE Bangalore Section and IEEE Mysore Subsection.

IEEE BANGALORE SECTION
IEEE MYSORE SUBSECTION

Dr. ABHINANDHAN K S
Principal, MRIT, Mandya

Dr. S.V.K.R.Rajeswari
Assistant Professor
Department of CSE(AIML)

- Dr. V.K.R.Rajeswari Satuluri, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), Dayananda Sagar University - School of Engineering, has actively participated and successfully guided and presented 3 student projects 1) Healthcarebot': A Smart Patient Triage & Medical Frequently Answered Questions (Faq) Assistant 2) Proactive Health Management: An Ai-Powered Web Application 'VytalAI' For Early Prediction Of Lifestyle Disorders, 3) Satellite-Driven Forecasting Of Integrated Air Quality And Weather Hazards In Urban Centers at the IEEE Mini Project Symposium 2025. The symposium was organized by the IEEE CEDA Bangalore Chapter in association with the IEEE Bangalore Section and IEEE Mysore Subsection, and hosted at ATME College of Engineering, Mysuru, on 25th October 2025. The event served as a platform for participants to showcase innovative projects, fostering technical knowledge sharing and collaboration.


ATME
College of Engineering

IEEE MINI PROJECT SYMPOSIUM 2025
CERTIFICATE OF PARTICIPATION

This is to certify that

Dr V K R Rajeswari Satuluri

In recognition of your active participation and for successfully presenting your project in the **IEEE Mini Project Symposium 2025**, organized by the **IEEE CEDA Chapter** and **ATME College of Engineering, Mysuru, on 25th October 2025**. Your innovative contribution and presentation helped foster an engaging platform for technical knowledge sharing and enhanced the success of the symposium.

IEEE CEDA IEEE

SCHOOL OF
ENGINEERING

STUDENT ACHIEVEMENTS

- Ms. Anagha R. Prabhu (ENG23CY0005) secured Second Place in Promptathon 2025, a creative and technical competition focused on prompt engineering and AI-driven innovation. The event was organized by the Department of Computer Science and Engineering (AI & ML) and DSU x Tempete Club.

- Mr. Sunay N (ENG23CY0039) participated in a professional development workshop titled “Unlocking Your Potential: Strategies for Professional Growth”, organized by RRL Technologies on 8th and 9th October 2025.

- Empowering the SPACE Students Community of India. We are proud to announce that our students, Mr. Krish Agrawal (ENG22AS0031), Mr. Charan Raj R (ENG23AS0002), and Ms. Srilaxmi Shenoy (ENG22AS0041) of Dayananda Sagar University, presented at the prestigious 3DEXPERIENCE FORUM 2025, India, hosted by Dassault Systèmes. Selected under the Connect Next – Industry Readiness Program by La Fondation Dassault Systèmes.

- On 9-10 Oct 2025, the students from the department of Aerospace Engineering DSU exceptionally performed at the nationwide FPSI Quiz Competition. Mr. Vijay Kumar A N (USN: ENG24AS1002) and Ms. Yashaswini U (USN: ENG23AS0040), with team name Hydronauts, secured 4th Place at the National FPSI Quiz Competition under the mentorship of Dr BVN Ramakumar.


FLUID POWER SOCIETY OF INDIA

Certificate Of Participation

This is to certify that

Ms. Yashaswini U

of Team

"Hydronauts" Dayananda Sagar University, Bengaluru

has participated in the

Fluid Power Challenge (FPC) 2025
National Level Quiz Finals

held on 10th October 2025 at Bengaluru under the guidance of Dr. B. V. N. Ramakumar

Kaustubha Vilas Parkhi
Chairperson – FPC 2025

Mr. Shrikant S Bairagi
President - FPSI


FLUID POWER SOCIETY OF INDIA

Certificate Of Participation

This is to certify that

Mr. Vijay Kumar AN

of Team

"Hydronauts" Dayananda Sagar University, Bengaluru

has participated in the

Fluid Power Challenge (FPC) 2025
National Level Quiz Finals

held on 10th October 2025 at Bengaluru under the guidance of Dr. B. V. N. Ramakumar

Kaustubha Vilas Parkhi
Chairperson – FPC 2025

Mr. Shrikant S Bairagi
President - FPSI

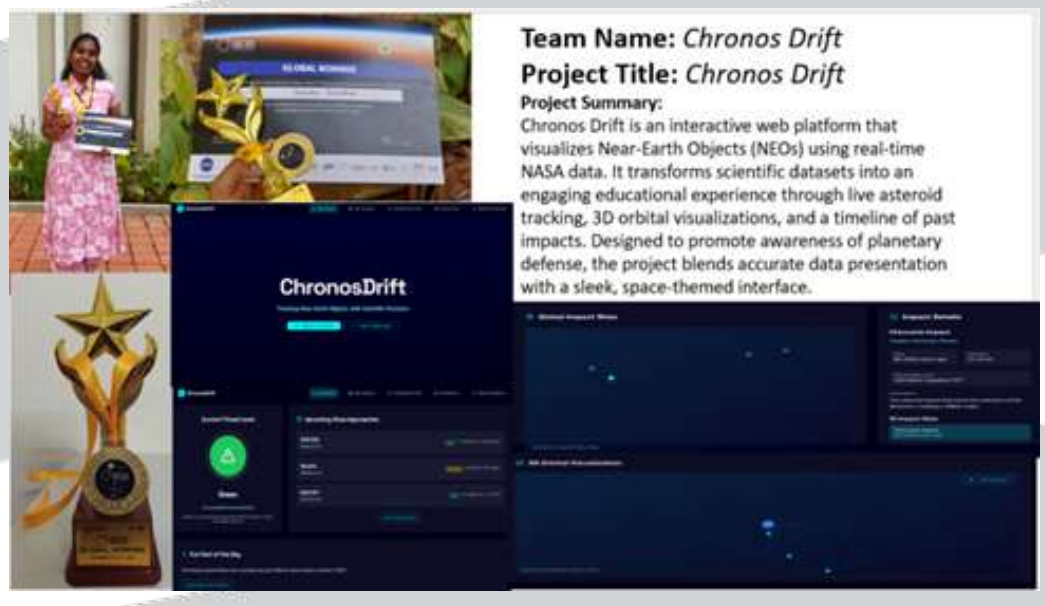
- The Students from the Department of Aerospace Engineering, Dayananda Sagar University, have qualified for the CANSAT/Model Rocketry competition finals, which will be held from October 28-30, 2025, at Narayani River Bank in Pipraghat, Kushinagar, Uttar Pradesh. Demonstrating exceptional skill and teamwork, the students clinched second place in the CANSAT competition, making the entire Dayananda Sagar University proud.

- Team NebriX from Dayananda Sagar University participated in Hacknova 1.0, a 24-hour National Level Hackathon held at Coorg Institute of Technology, Ponnampet – Kodagu, on 15th and 16th October 2025. The team comprising Mr. Jaffer Sadik J (ENG24AS0007, Aerospace Engineering), Mr. Ranjith Kumar G (ENG24AM0073, AIML), and Mr. Chandavandan N (ENG24AM0019, AIML) developed an innovative project titled “AI Health Monitoring System for Satellites,” integrating artificial intelligence with aerospace diagnostics to enhance satellite health prediction and maintenance.

- Ms. Tejashree H Eng23AS0022, Mr. RISHAB PRAVEEN BADIGER Eng23AS0015, and Mr. AYAN SAMANTA Eng23AS0041 students from the III year Department of Aerospace Engineering, Dayananda Sagar University secured First Prize in the event “Wind Rush” at the National Level Tech Fest “Pravrutti”, organized by M. S. Ramaiah University of Applied Sciences, Bengaluru, held from 15th to 17th October 2025.

- The following students — Mr. Manajeet S Patil (ENG23AS0005), Ms. Nisha Rani R (ENG23AS0006), Mr. Shreenivas Murthy Ravi Nadagoud (ENG23AS0018), Mr. Pankaj B (ENG23AS0007), Ms. Jenna Bandar (ENG23AS0027), Mr. Syed Aaqsa Seher (ENG23AS003), and Ms. Ridhima Jain (ENG23AS0014) — from the Department of Aerospace Engineering actively participated in the ‘Tech@Bangalore DC’ event held on 28th October 2025.

- Ms. Sreedevi Sreedhar (USN: ENG23RA0019), a 5th-semester student from the Department of Artificial Intelligence and Robotics, Dayananda Sagar University, was recognized as a Global Nominee 2025 for her innovative project titled “Chronos Drift”.



- Mr. Nilesh Sarkar ENG23RA0038, 5th-semester AI and Robotics student, was awarded a Certificate of Competency by NVIDIA for completing the course "Introduction to Transformer-Based Natural Language Processing." This certification, issued on October 4, 2025.

- Ms. Rutu, ENG23RA0017, a 5th-semester AI and Robotics student, participated in the IEEE CIS & RAS SBC DSU Technical Quizathon and Project Conclave 2025, organized on October 13, 2025, at Dayananda Sagar University.

- Ms. Ayushi N, ENG23RA0002, 5th-semester AI and Robotics student, participated in The RoboCraft Workshop, conducted by the IEEE Robotics and Automation Society, DSU, in association with Yanthroze Club and the Department of CSE (Artificial Intelligence and Machine Learning), which was held on October 7th and 8th, 2024, at Dayananda Sagar University.

- Mr. Hruthvik H N, ENG23RA0009, a 5th-semester AI and Robotics student, participated in TechFusion 2025, an inter-college technical fest organized by the Department of Computer Science and Engineering at Dayananda Sagar Academy of Technology and Management, Bengaluru. The event focused on IoT, cybersecurity, and blockchain technology and took place from October 13 to 15, 2025. Hruthvik was a member of the team "Cult Coders" and participated in the "Hackverse" event.


DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

TECHFUSION IEEE

CERTIFICATE

Of Participation

This is to certify that

Hruthvik H N

Participated in Techfusion 2025, organized by the Department of Computer Science and Engineering in IoT and Cybersecurity including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13-15, 2025.

HACKVERSE
EVENT NAME

Cult Coders
TEAM NAME

DR. MADHUMALA R B
Convener

OCULUS AEGIS

- Mr. Dhanush A ENG24RA0067, a 5th-semester AI and Robotics student, has actively participated in the “AI for Devices: Hands-On with Edge Impulse” workshop conducted by Edge Impulse (a Qualcomm company) in collaboration with the ElectroBlitz Club, DSU on 9th October 2025, and received a Certificate of Appreciation for his outstanding contribution towards the success of “International Fusion – DSU Globe Fest” held on 13th September 2025 at Dayananda Sagar University.


EDGE IMPULSE

IEEE

Certificate of Participation

This certificate is proudly awarded to

DHANUSH A

has participated in the workshop "AI for Devices: Hands-On with Edge Impulse" conducted by **Edge Impulse** (a Qualcomm company) in collaboration with **ElectroBlitz Club**, DSU On 9th October, 2025

Dr. Udaya Kumar Reddy K R

- Mr. Shaik Dada Khalandar, ENG24RA0057, a 3rd-semester AI and Robotics student, has been selected for a Machine Learning Internship under the Fellowship Program at Future Interns, scheduled from 7th October 2025 to 7th November 2025.

FUTURE INTERNS

INTERNSHIP OFFER LETTER

Date: 07/10/2025 CIN: FIT/OCT25/ML3007

Dear SHAIK DADA KHALANDAR

We are delighted to welcome you to the **Machine Learning Internship** under our Fellowship Program at Future Interns. This internship is scheduled to run from **07/10/2025** to **07/11/2025** and is designed to be a valuable learning experience that includes orientation, skill development, and the practical application of concepts in a real-world environment.

By accepting this offer, you acknowledge and understand that participation in this program is not an offer of employment. Furthermore, successful completion of the program does not entitle you to an employment offer from Future Interns.

You agree to adhere to all company policies applicable to non-employee interns. This letter constitutes the complete understanding between you and the company regarding your internship, superseding all prior discussions or agreements.

Upon successful completion of the internship, we will provide you with a **Completion Certificate** and a **Letter of Recommendation (LoR)** to recognize your achievements and contributions.

We eagerly anticipate your commencement of the internship program at Future Interns and extend our best wishes for a meaningful and prosperous experience.

Sincerely,

Future Interns

EMAIL WEBSITE LinkedIn

- Ms. Prakruthi J ENG24RA0015, a 3rd-semester AI and Robotics student, actively participated in the IEEE CIS & RAS SBC DSU – Technical Quizathon & Project Conclave 2025 held on 13th October 2025 at Dayananda Sagar University.

IEEE Computational Intelligence Society STUDENT BRANCH CHAPTER,DSU

DAYANANDA SAGAR UNIVERSITY

IEEE DSU Student Branch

IEEE Robotics & Automation Society STUDENT BRANCH CHAPTER,DSU

CERTIFICATE

OF PARTICIPATION

PROUDLY PRESENTED TO

Prakruthi J

FOR PARTICIPATING IN THE IEEE CIS & RAS SBC DSU – TECHNICAL QUIZATHON & PROJECT CONCLAVE 2025 ON 13TH OCTOBER 2025 AT DAYANANDA SAGAR UNIVERSITY, DEMONSTRATING ENTHUSIASM, TEAMWORK, AND TECHNICAL KNOWLEDGE IN AI, ML, ROBOTICS, AND EMERGING TECHNOLOGIES.

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

Prof. Subhash Mondal
Faculty Advisor, CIS & RAS SBC,
DSU

- Mr. Naeem Ahmed and Ms. Spoorthi B S, along with faculty members from the Department of ECE, Dayananda Sagar University, received a Certificate of Appreciation for their paper presentation titled “Image Artifact Removal Using DnCNN in Low Bandwidth Wireless Communication.” The paper was presented at the 3rd IEEE International Conference for Women in Innovation, Technology, and Entrepreneurship (ICWITE 2025), held on September 26–27, 2025, at B.G.S. College of Engineering, Bangalore, organized by the IEEE Women in Engineering Affinity Group, Bangalore Section.

- Mr. Nagarjun S [ENG24PFBS01] and Mr. Kishan B S [ENG24PFBS08], research scholars from the Department of Chemistry, under the guidance of Dr. Pradeep Kumar Badiya, participated in the NANO scientific Symposium - 2025 India (NSS-2025) organized by the Indian Institute of Science (IISc), Bangalore, in association with Park Systems, on 15-16th October 2025.

- Mr. Prajwal B R (ENG22CS0121), Mr. Pratham U K (ENG22CS0123), Mr. Nithin P Hegde(ENG22CS0113), Mr. Goyal Raj(ENG22CS1034), Final year CSE Students and Prof. Mala B A, Prof. Bharath M B, Assistant Professors, Department of CSE presented research paper titled “DeFiHomes: A Secure and Transparent Decentralized Real Estate Platform with Smart Contract-Driven Actions” at the 2nd International Conference on Data Mining and Information Security ICDMIS 2025 (Hybrid Mode) on 7th & 8th October 2025 in collaboration with Eminent College of Management & Technology (ECMT) and University of Puthisastra, Cambodia.


2ND INTERNATIONAL CONFERENCE ON DATA MINING AND INFORMATION SECURITY
organized by
Eminent College of Management and Technology, India
in collaboration with
UNIVERSITY OF PUTHISASTRA, CAMBODIA
ICDMIS 2025
CERTIFICATE
OF PRESENTATION
The organizing committee places on record the contribution made by Mala B A, Prajwal B R, Bharath M B, Pratham U K, Nithin P Hegde, Goyal Raj through the presentation of the paper titled DeFiHomes: A Secure and Transparent Decentralized Real Estate Platform with Smart Contract-Driven Auctions in 2nd International Conference on Data Mining and Information Security (ICDMIS 2025) held on 7th - 8th October 2025.
Springer
Manuscript/ICDMIS/2025/614

- Ms. Sneha M P (ENG22CS0176), Ms. Sneha (ENG22CS0173), Ms. Sinchana k (ENG22CS0169), Ms. Shashikala (ENG22CS0163), Final year CSE Students and Prof. Mala B A, Prof. Bharath M B, Assistant Professors, Department of CSE presented research paper titled “Secure and Auditable Electronic Health Record Management Using AES Encryption and Blockchain Verification for Rural Clinics” at the International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG- 2025) in association with the IEEE Bangalore Section during 10-11 October 2025 at JSS Science and Technology University, Mysuru, Karnataka.

JSS MAHAVIDYAPEETHA
JSS SCIENCE AND TECHNOLOGY UNIVERSITY
Sri Jayachamarajendra College of Engineering
(Constituent College of JSS Science and Technology University)
JSS Technical Institutions Campus, Mysuru-570006, Karnataka, India

International Conference on Emerging Technologies in Electronics and Green Energy
ICETEG 2025

CERTIFICATE OF PARTICIPATION

This is to certify that

Prof./Mr./Ms./Dr. Mala BA, Bharath MG, Sinchana K, Shakitala, Sneha, Sneha MD from

Dayananda Sagar University

Has participated and presented a paper entitled

Secure and auditable electronic health record management using AES encryption and

In International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG 2025) held at JSS Science and Technology University, Mysuru, during 10th and 11th October, 2025.

Dr. M.G. Veena
General Chair, ICETEG 2025
JSS STU, Mysuru

Dr. Sudarshan Patil Kulkarni
General Chair, ICETEG 2025
JSS STU, Mysuru

- Mr. Madhumithan S (ENG22CS0096), Mr. K Murugesh (ENG22CS0078), Mr. Mahesh R (ENG22CS0097), Mr. Anand Kumar (ENG23CS1040), Final year CSE Students and Prof. Mala B A, Assistant Professor, Department of CSE presented research paper titled “IoT-Guard: AI-Powered Intrusion Detection for Securing IoT Networks” at the International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG- 2025) in association with the IEEE Bangalore Section during 10-11 October 2025 at JSS Science and Technology University, Mysuru, Karnataka.

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JSS Technical Institutions Campus, Mysuru-570006, Karnataka, India

International Conference on Emerging Technologies in Electronics and Green Energy
ICETEG 2025

CERTIFICATE OF PARTICIPATION

This is to certify that

Prof./Mr./Ms./Dr. K Murugesh, Madhumithan S, Mahesh R, Anand Kumar, Mala BA, Anitha IR from

Dayananda Sagar University

Has participated and presented a paper entitled

IoT-Guard: AI powered Intrusion detection for securing IoT networks

In International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG 2025) held at JSS Science and Technology University, Mysuru, during 10th and 11th October, 2025.

Dr. M.G. Veena
General Chair, ICETEG 2025
JSS STU, Mysuru

Dr. Sudarshan Patil Kulkarni
General Chair, ICETEG 2025
JSS STU, Mysuru

- Ms. Linga Reddy Gari Kavyanjali (ENG21CS0205), Mr. K. Amaresh Srujan Gupta (ENG21CS0178), Mr. Jonnavaram Gireesh Reddy (ENG21CS0171), Mr. Markapuram Lokesh Kumar (ENG21CS0225), 2025 passed out batch of CSE Students and Prof. Kavyashree I Pattan, Prof. Nandini K, Assistant Professors, Department of CSE presented research paper titled “A Smart Electricity Meter Using IoT for Real-Time Monitoring and Remote Control” at the International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG- 2025) in association with the IEEE Bangalore Section during 10-11 October 2025 at JSS Science and Technology University, Mysuru, Karnataka.

- Ms. Arpita Sahoo (ENG23CS0271), 3rd year CSE student, successfully participated in The NASA International Space Apps Challenge 2025 during October 4-5, 2025, organized by DSU.

- Ms. Ridhi Golchha (ENG23CS0164) and Mr. Tejas HR (ENG23CS0480), 3rd year CSE students, successfully participated and were awarded as a global nominee in the top 10 teams at The NASA International Space Apps Challenge 2025 during October 4-5 2025 hosted by Dayananda Sagar University.

- Mr. Pavan Kumar G R (ENG23CS0131), Mr. Omkar S G (ENG23CS0128), Mr. Ibrahim Sharif (ENG23CS0078), Mr. Viresh Hiremath (ENG24CS1020) and Mr. P Gnanesh (ENG23CS0129) 3rd year CSE students as team, Cosmo Connect successfully participated and was awarded as a Local Award Winner (Special Recognition) at the 2025 NASA International Space Apps Challenge, hosted by Dayananda Sagar University during October 4-5 2025.

- Mr. Pavan Kumar G R (ENG23CS0131), Mr. Prajwal Jyotiba Shindhe (ENG23CS0137), Mr. Aditya Nayak (ENG23CS0009), and Mr. Nandeesh NB (ENG23AM0047), 3rd year students, have a team. Vade Gopal has secured the RunnerUp position with a cash prize of Rs. 5000 for the Project titled: "Aura Wellness" - An AI platform for Stress Management in the AI/ML domain at the TechFusion 2025 Inter-College Hackathon held on October 14-15, organized by Dayananda Sagar Academy of Technology and Management, Bengaluru.


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TECHFUSION
IEEE
CERTIFICATE
Of Appreciation
This is to certify that
PRAJWAL J SHINDE
has emerged as the RUNNER UP of TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT, Cybersecurity including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13-15, 2025.
HACKVERSE
EVENT NAME
VADE GOPAL
TEAM NAME
DR. MADHUMALA R B
Convener
DR. M RAVISHANKAR
Principal
OCULUS AEGIS


DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
TECHFUSION
IEEE
CERTIFICATE
Of Appreciation
This is to certify that
PAVAN KUMAR G R
has emerged as the RUNNER UP of TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT, Cybersecurity including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13-15, 2025.
HACKVERSE
EVENT NAME
VADE GOPAL
TEAM NAME
DR. MADHUMALA R B
Convener
DR. M RAVISHANKAR
Principal
OCULUS AEGIS


DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
TECHFUSION
IEEE
CERTIFICATE
Of Appreciation
This is to certify that
ADITYA NAYAK
has emerged as the RUNNER UP of TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT, Cybersecurity including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13-15, 2025.
HACKVERSE
EVENT NAME
VADE GOPAL
TEAM NAME
DR. MADHUMALA R B
Convener
DR. M RAVISHANKAR
Principal
OCULUS AEGIS


DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
TECHFUSION
IEEE
CERTIFICATE
Of Appreciation
This is to certify that
NANDEESH N B
has emerged as the RUNNER UP of TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT, Cybersecurity including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13-15, 2025.
HACKVERSE
EVENT NAME
VADE GOPAL
TEAM NAME
DR. MADHUMALA R B
Convener
DR. M RAVISHANKAR
Principal
OCULUS AEGIS

- Mr. Sidmal Madhan (ENG23CS0189) and Mr. Sumanth K M (ENG23CS0201), 3rd year CSE students, has a team Code4o2 secured the Runners-Up position with a cash prize of Rs. 5000 for the Project titled "Vayu Sahayog" - An AI platform for air quality management in the Data Science domain at the TechFusion 2025 Inter-College Hackathon held on October 14-15 organized by Dayananda Sagar Academy of Technology and Management, Bengaluru.


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TECHFUSION
IEEE
CERTIFICATE
Of Appreciation
This is to certify that
SIDMAL MADHAN
has emerged as the RUNNER UP of TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT, Cybersecurity including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13-15, 2025.
HACKVERSE
EVENT NAME
CODE4O2
TEAM NAME
DR. MADHUMALA R B
Convener
DR. M RAVISHANKAR
Principal
OCULUS AEGIS

DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi & Accredited by NBA New Delhi)

(All B.E Courses Accredited by NBA New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Main Road, Bengaluru-560082

TECHFUSION

INTER COLLEGE TECHNICAL FEST

IEEE BANGALORE SECTION

CERTIFICATE

Of Appreciation

This is to certify that

SUMANTH K.M

has emerged as the RUNNER UP of TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT, Cybersecurity including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13–15, 2025.

HACKVERSE — EVENT NAME

CODE 40, — TEAM NAME

DR. MADHUMALA R B
Convener

DR. M RAVISHANKAR
Principal

OCULUS AEGIS

- Mr. Subhash Rathod (ENG22CS0188), Final Year CSE Student, and Prof. Kavyashree I Pattan, Dr. Renukadevi M N, Dr. P Naresh, Assistant Professors, and Dr. Praveen Kulkarni, Associate Professor, Department of CSE, presented a paper titled “Autism Spectrum Disorder of Computational Prediction using Machine Learning” in the three-day International Conference on Sustainable Communication Networks and Application (ICSCN 2025), organized by Bharath Niketan Engineering College, Thimmarasanaickanoor, Aundipatty, Theni Dt, held during 15-17 October 2025.

Autism Spectrum Disorder of Computational Prediction using Machine Learning

IEEE ComSoc

International Conference on Sustainable Communication Networks and Application ICSCN 2025

Certificate of Presentation

This is to certify that

Subhash Rathod

has presented a paper entitled

Autism Spectrum Disorder of Computational Prediction using Machine Learning

in the three-day International Conference on Sustainable Communication Networks and Application held during 15-17, October 2025

ICSCN

Organised by:

BNEC Bharath Niketan Engineering College

AICTE | ANNA UNIVERSITY | ISO

Session Chair — Conference Chair: Dr. K. Pounraj — Principal: Dr. P. V. Arul Kumar

IEEE ComSoc

International Conference on Sustainable Communication Networks and Application ICSCN 2025

Certificate of Presentation

This is to certify that

Kavyashree I Pattan

has presented a paper entitled

Autism Spectrum Disorder of Computational Prediction using Machine Learning

in the three-day International Conference on Sustainable Communication Networks and Application held during 15-17, October 2025

ICSCN

Organised by:

BNEC Bharath Niketan Engineering College

AICTE | ANNA UNIVERSITY | ISO

Session Chair — Conference Chair: Dr. K. Pounraj — Principal: Dr. P. V. Arul Kumar

- Mr. Lokesh J (ENG22CT0012), Mr. Danesh H M (ENG22CT0005), Mr. Ahemad Talwar (ENG23CT1001), Mr. Junaid, Dr. Santosh Kumar J published a research article titled “Worldcoin Market Analysis Using ETL Pipeline and Time-Series Data” at the International Conference on Communication, Computer, and Information Technology (IC3IT) held in the Mysuru Royal Institute of Technology (MRIT), Srirangapatna, Mandya, India on October 24–25, 2025.

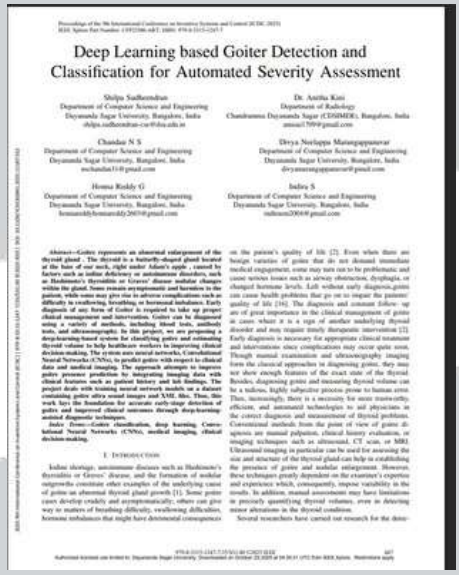
- Ms. B R Lakshmi (ENG24CSE009), M Tech 2nd semester Student, Department of CSE, Dr. Rajesh T M, Associate Professor, Dr. Renuka Devi M N, Prof. Kavyashree I Pattan, Dr P. Naresh, Prof. Yashpal Gupta S, Assistant Professors published a paper titled “Automated Detection of Phishing Websites Using Machine Learning Techniques” in the IEEE during October 2025, which was presented at the 9th International Conference on Inventive Systems and Control (ICISC-2025).


Automated Detection of Phishing Website using Machine Learning Techniques

- Mr. Mohammed Amirul Aman (ENG22CS0104), Mr. Raghavendragoud (ENG22CS0127), Mr. Raja Mohamad(ENG22CS0131) and Mr. Puneeth (ENG22CS0125) Final Year CSE Students under the guidance of Prof. Kavyashree I Pattan, Assistant Professor, published a paper titled “Multi-Disease Detection Using Hybrid Models and Transfer Learning: Cardiovascular, Pulmonary, Retinal and Renal” in the IEEE during October 2025, which was presented at the 9th International Conference on Inventive Systems and Control (ICISC-2025).


Multi-Disease Detection using Hybrid Models and Transfer Learning: Cardiovascular, Pulmonary, Retinal and Renal

- Mr. Chandan N S (ENG22CS0038), Ms. Divya Neelappa Marangappanavar (ENG22CS0053), Mr. Honna Reddy G (ENG22CS0071), Ms. Indira S(ENG22CS0073), Final Year CSE Students under the guidance of Prof. Shilpa Sudheendran, Assistant Professor, Published a paper titled “Deep Learning based Goiter Detection and classification for Automated Severity Assessment” in the IEEE during October 2025, which was presented at the 9th International Conference on Inventive Systems and Control (ICISC-2025).

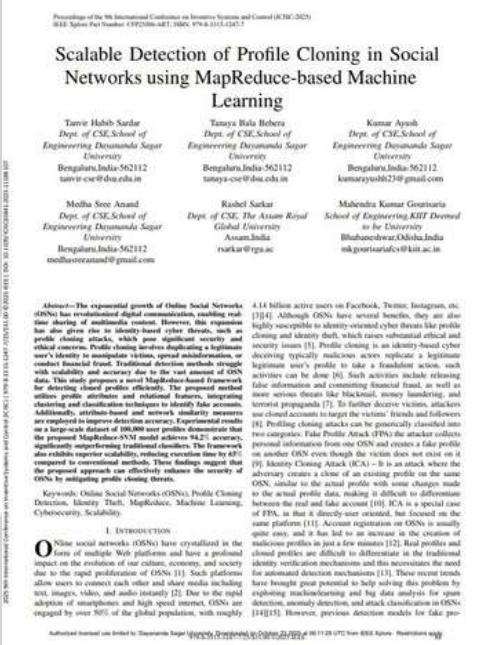


Deep Learning based Goiter Detection and Classification for Automated Severity Assessment

- Mr. Chandan N S (ENG22CS0038), Ms. Divya Neelappa Marangappanavar (ENG22CS0053), Mr. Honna Reddy G (ENG22CS0071), Ms. Indira S(ENG22CS0073), Final Year CSE Students under the guidance of Prof. Mala B A, Assistant Professor, published a paper titled “Intelligent Failure Detection in Industrial Machines Using Hybrid ML and Anomaly Scores” in the IEEE during October 2025, which was presented at the 9th International Conference on Inventive Systems and Control (ICISC-2025).

Intelligent Failure Detection in Industrial Machines using Hybrid ML and Anomaly Scores

- Mr. Kumar Ayush(ENG22CS0347), Ms. Medha Sree Anand(ENG22CS0562), Final Year CSE Students and Dr. Tanvir Habib Sardar, Associate Professor, Prof. Tanaya Bala Behera, Assistant Professor, published a paper titled “Scalable Detection of Profile Cloning in Social Networks using MapReduce-based Machine Learning" in the IEEE during October 2025, which was presented at the 9th International Conference on Inventive Systems and Control (ICISC-2025).



Scalable Detection of Profile Cloning in Social Networks using MapReduce-based Machine Learning

- Mr. Clifford Thiyam (ENG22CS0043), Ms. Deolin Avrel Saldanha (ENG22CS0048), Ms. C. V. Dhatri (ENG22CS0272), Ms. Chadalavada Akshaya (ENG22CS0273), Final year CSE Students under the guidance of Prof. Mala B A, Assistant Professor, Department of CSE presented research paper titled “Enhancing Food (Turmeric) Supply Chain Transparency Using Automated Smart Contracts” offline at the 9th IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2025 IEEE DISCOVER), under IEEE Mangalore Subsection, 2025, organized by P. A. College of Engineering, Mangaluru, Karnataka, during October 17 - 18, 2025.

P.A. COLLEGE OF ENGINEERING

IEEE Mangalore Subsection

IEEE MANGALORE SUBSECTION (R10/1301)

2025 IEEE INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING, VLSI, ELECTRICAL CIRCUITS AND ROBOTICS (2025 IEEE DISCOVER)
OCTOBER 17-18, 2025

CERTIFICATE OF PRESENTATION

This is to certify that Dr./Mr/Ms. CLIFFORD THIYAM of Dayananda Sagar University has participated and presented a paper titled Enhancing Food (Turmeric) Supply Chain Transparency Using Automated Smart Contracts

in 2025 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2025 IEEE DISCOVER) - Conference Record #66927) organized by IEEE Mangalore Subsection at P.A. College of Engineering, Mangaluru, Karnataka, India during October 17-18, 2025.

Co-authors: Clifford Thiyam, Mala B A, Deolin Avrel Saldanha, C Dhatri, C S Akshaya

Dr. Sharmila Kunari N.

Dr. Mohammed Zakir R.

- Mr. Abhay J Kashyap (ENG23CS0505), 3rd year CSE student, participated in TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT and Cyber security, including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13–15, 2025.

- Mr. Ved Ashoka Shetty (ENG23CS0493), 3rd year CSE student, participated in a Promptathon 2025 organized by the Department of CSE-AIML, DSU on 16th October 2025.

- Mr. S Shreenidhi (ENG23CS0169), Mr. VINITH S (ENG23CS0221), and Mr. Jithin Gowda N (ENG23CS0328), 3rd year CSE students as team Cosmic X Coders, successfully participated and were awarded as Global Nominees at the 2025 NASA International Space Apps Challenge, hosted by Dayananda Sagar University during October 4-5, 2025.

- Mr. Raghav Thakur (ENG23CS0413), 3rd year CSE student, participated in Capture the Flag at Kalpavikas 1.0, organised by the School of Computer Science and Engineering (SoCSE), RV University, on 10 and 11 October 2025, and secured the 4th rank in the event.

- Ms. Unnati Rana (ENG23CS0670), a 3rd-year CSE student, has been selected as a Google Student Ambassador (GSA) for September 2025, and she has been recognized as the Top Performer for the month of October 2025 in overall Karnataka under the program.

- Ms. Ramyashree B (ENG23CS0161), 3rd year CSE student, has successfully completed an online course on Pandas in Kaggle on 24th October 2025 and the Network Fundamentals course in the Infosys Springboard online platform on October 22, 2025.

- Ms. Yashmitha P. (ENG23CS0230), 3rd year CSE student, successfully participated in the NASA International Space Apps Challenge 2025 during October 4-5, 2025, organized by DSU.

- Ms. Diya S Reddy(5A) and Ms. I Impana CK(ENG23CS0079), 3rd year CSE students, participated in TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT and Cyber security, including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13–15, 2025.

- Mr. Sidmal Madhan (ENG23CS0189), Mr. Kamran Hussain (ENG24CS1009), Ms. Roopa Nagaraj Doddamani (ENG23CS0166), and Ms. Maski Sneha (ENG23CS0109), 3rd year CSE students has a team Code2Impact participated in the National Level 24-hour Hackathon – Hack IT On'25, organized by the Department of Information Technology, KPR Institute of Engineering and Technology, Coimbatore, in association with IEEE ITS, on 23rd & 24th October 2025 for the project titled "ParyavaranSahyog (JeevaDhara)".

KPR Institute of Engineering and Technology

IEEE KPRIET Student Branch

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./ Ms ROOPA NAGARAJ DODDAMANI of DAYANANDA SAGAR UNIVERSITY has participated in the 24 Hours Hackathon (Hack IT on'25), conducted by Department of Information Technology in association with IEEE Information Theory Society at KPR Institute of Engineering and Technology, Coimbatore on 23.10.2025 and 24.10.2025.

Dr. S. Malathy, IEEE Faculty Advisor | Dr. Dinesh Chellappan, IEEE SB Counsellor | Dr. R. Menaha, HoD/ IT | Dr. R. Devi Priya, Principal

KPR Institute of Engineering and Technology

IEEE KPRIET Student Branch

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./ Ms SIDMAL MADHAN of DAYANANDA SAGAR UNIVERSITY has participated in the 24 Hours Hackathon (Hack IT on'25), conducted by Department of Information Technology in association with IEEE Information Theory Society at KPR Institute of Engineering and Technology, Coimbatore on 23.10.2025 and 24.10.2025.

Dr. S. Malathy, IEEE Faculty Advisor | Dr. Dinesh Chellappan, IEEE SB Counsellor | Dr. R. Menaha, HoD/ IT | Dr. R. Devi Priya, Principal

KPR Institute of Engineering and Technology

IEEE KPRIET Student Branch

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./ Ms MASKI SNEHA of DAYANANDA SAGAR UNIVERSITY has participated in the 24 Hours Hackathon (Hack IT on'25), conducted by Department of Information Technology in association with IEEE Information Theory Society at KPR Institute of Engineering and Technology, Coimbatore on 23.10.2025 and 24.10.2025.

Dr. S. Malathy, IEEE Faculty Advisor | Dr. Dinesh Chellappan, IEEE SB Counsellor | Dr. R. Menaha, HoD/ IT | Dr. R. Devi Priya, Principal

KPR Institute of Engineering and Technology

IEEE KPRIET Student Branch

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./ Ms KAMRAN HUSSAIN of DAYANANDA SAGAR UNIVERSITY has participated in the 24 Hours Hackathon (Hack IT on'25), conducted by Department of Information Technology in association with IEEE Information Theory Society at KPR Institute of Engineering and Technology, Coimbatore on 23.10.2025 and 24.10.2025.

Dr. S. Malathy, IEEE Faculty Advisor | Dr. Dinesh Chellappan, IEEE SB Counsellor | Dr. R. Menaha, HoD/ IT | Dr. R. Devi Priya, Principal

- Ms. Disha Goyal (ENG24CT0035) participated in Udaya 1.0 Hackathon, the national-level hackathon hosted at Dayananda Sagar College of Engineering, Bengaluru, on 27th September 2025. The team showcased their innovation, technical expertise, and collaborative spirit, securing the Third Prize.

DAYANANDA SAGAR COLLEGE OF ENGINEERING
Accredited by National Assessment & Accreditation Council (NAAC) With 'A' Grade
an Autonomous Institute Affiliated to VTU, Approved by AICTE & UGC
Department of Computer Science & Design

CERTIFICATE OF ACHIEVEMENT

proudly awarded to

Disha Goyal - Aegis

for securing Third in AI in Education domain

in UDAYA 1.0 Intra-DSI Hackathon held on 27th September, 2025.

Prof. Poornima D, Faculty Coordinator, CSD, DSCE
Dr. Suma V, Vice Principal & HOD, CSD, DSCE
Mr. Sathyanarayana B V, CEO, DERBI Foundation
Dr. B G Prasad, Principal, DSCE

- The NASA Space Apps GO Team announced the results of their competition after evaluating over 180 teams. They invited 20 selected teams to attend the Award Ceremony held on 14th October 2025 at 10 AM at the Kudlu Gate Campus. Team AstroSynapse of Mr. Dhruv Kumar (ENG23CT0028), Team Null and Void of Ms. Keshna Bansal (ENG23CT0030), Team Cosmonauts of Ms. Nettam Shalini (ENG23CT0057), Team Cosmic X Coders of Mr. Deepu M D (ENG23CT0050) were among the teams awarded.

- The team “Syntax Breakers”, led by Mr. Liketh B (ENG24DS0181) (CSE – Data Science), along with Ms. Pallavi B (Computer Science and Technology) and Akshay J K (CSE – Cyber Security), emerged as First Place winners Rs.1000 as cash prize in the IoT Domain at the Hackverse 2025 Hackathon, securing a cash prize for their innovative project titled “SwIoT.”

- The team, Ms. Pragathi A B (CST), Ms. Khushi N J (CST), Ms. Yashodha H R (CSE), Mr. S Karan (Aerospace), emerged as runners-up in the IoT Domain at the Hackverse 2025 Hackathon, securing a cash prize of 5000 for their innovative project titled “SwIoT.”

- Vinith K M - ENG22DS0023 has been officially selected for the "Hubballi Poetry Festival 2025" endorsed by the Indian Poetry Society, curated & Cultured by ROSTRUM Diaries.

- Aditya S -ENG23DS0001 has won 1st Place in Quizathon at the IEEE CIS & RAS SBC DSU- Technical Quizathon & Project Conclave 2025, organized by the Department of CSE (AI & ML), Dayananda Sagar University, held on 13th October 2025.

- Shashi Kumar C - ENG23DS0034 has won 2nd Place in Quizathon at the IEEE CIS & RAS SBC DSU- Technical Quizathon & Project Conclave 2025, organized by the Department of CSE (AI & ML), Dayananda Sagar University, held on 13th October 2025.

- Rathandeep C. S - ENG23DS0027 has emerged as the RUNNER UP of TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT, Cybersecurity, including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13-15, 2025.


DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
(Affiliated to Visvesvaraya Technological University, Belagavi & Accredited by NBA New Delhi)
(All B.E Courses Accredited by NBA New Delhi)
Opp. Art of Living, Udayapura, Kanakapura Main Road, Bengaluru-560082

TECHFUSION
INTER COLLEGE TECHNICAL FEST
IEEE BANGALORE SECTION

CERTIFICATE
Of Appreciation

This is to certify that

RATHANDEEP . C. S

has emerged as the RUNNER UP of TechFusion 2025, organized by the Department of Computer Science and Engineering in IoT, Cybersecurity including Blockchain Technology at Dayananda Sagar Academy of Technology and Management, Bengaluru, held from October 13-15, 2025.

HACKVERGE
EVENT NAME

CODE4O2
TEAM NAME

DR. MADHUMALA R B
Convener

DR. M RAVISHANKAR
Principal

OCULUS AEGIS

1/1

- Aditya S -ENG23DS0001 for Securing the First Place in Promptathon 2025, organized by CSE(AI&ML) & DSU X TEMPETE CLUB.


DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING

DAYANANDA SAGAR UNIVERSITY

CERTIFICATE
OF ACHIEVEMENT

THIS CERTIFICATE IS PROUDLY PRESENTED
TO

Aditya S
for securing the First Place in
Promptathon 2025
organized by CSE (AI&ML) & DSU x TEMPETE CLUB

Dr. Jayavrinda Vrindavanam V
Chairperson
DEPARTMENT OF CSE(AI & ML)
SOE, DSU

Dr. Udaya Kumar Reddy K R
Dean
SCHOOL OF ENGINEERING
DSU

- Adhitya N. - ENG23DS0049, Meghana N - ENG23DS0073, Shivamurthy B - ENG23DS0036, Sagar M - ENG23DS0029, Bhumika Moger- ENG23DS0009 have won the Global Nominee Award at the NASA International Space Apps Challenge 2025.

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

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

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

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