



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

The Official Weekly Newsletter of **School of Engineering**



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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

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

Faculty Contributions

Department Of Computer Science and Engineering

Dr. Gokulakrishnan S, Assistant Professor, Department of CSE presented a paper titled “An Optimized Deep Learning based Framework for Cognitive State Classification using Brain-Computer Interface Technologies” in the Springer 9th International Conference on Inventive Communication and Computational Technologies (ICICCT-2025) organized by Sri Ramakrishna College of Engineering, Perambalur, India during 5-6 June 2025.



Dr. Naresh P, Assistant Professor, Department of CSE presented 3 papers titled “ Data Mining for Advanced Anomaly Detection of Speech using One Class SVM (DaMaDS)”, “ Machine Learning-Enabled Virtual Hiring Assistant Powered by Unigram Tokenization and Sentiment Analysis” and “Heart Disease Prediction using Machine Learning” in the IEEE 3rd International Conference on Inventive Computing and Informatics (ICICI 2025) held from 4th to 6th June 2025 at S.E.A. College of Engineering and Technology, Bengaluru, Karnataka.



Dr. Naresh P, Assistant Professor, Department of CSE presented a paper titled “Self-Supervised Contrastive Denoising with VIT and U-net: A Hybrid Approach”, in the IEEE International Conference on Intelligent Computing and Knowledge Extraction (ICICKE-2025) organized by School of Engineering and Technology, CMR University, Bengaluru, held from 6th to 7th June 2025.



Dr. Sivananda Reddy E, Associate Professor, Department of CSE, presented 2 papers titled “Machine Learning-Enabled Virtual Hiring Assistant Powered by Unigram Tokenization and Sentiment Analysis” and “Wine Quality Prediction Using XGBoost with Polynomial Feature Expansion and SMOTE” in the IEEE 3rd International Conference on Inventive Computing and Informatics (ICICI 2025) held from 4th to 6th June 2025 at S.E.A. College of Engineering and Technology, Bengaluru, Karnataka.



Dr. Rajesh T M, Associate Professor, Department of CSE, published a Scopus indexed conference paper entitled “Secure Data Embedding in Digital Images : Enhancing Covert Communication with LSB-Based Techniques” in Elsevier, ScienceDirect, Procedia Computer Science, 258 (2025) 2091–2100 during June 2025 which was presented in the International Conference on Machine Learning and Data Engineering (ICMLDE 2024).



Department Of CSE (AIML)

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

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

Patent Inventors

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



Department Of CSE (Cyber Security)

Dr. Dilip Kumar Jang Bahadur Saini has presented a paper titled “Personalized Federated Learning for Privacy- Preserving and Scalable IoT-Driven Smart Healthcare” at the 3rd International Conference on Inventive Computing and Informatics (ICICI 2025) held from 4-6, June 2025 at S.E.A. College of Engineering and Technology Bengaluru, Karnataka, India.



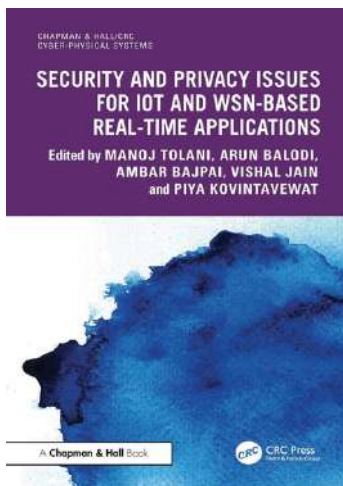
Prof. Vinitha V, presented her research paper at the 1st International Conference on Networked Computing and Data Analytics (ICNCDA-2025) held on May 23-24, 2025, at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan. Paper, titled "Ensemble Stacking of GNNs, Transformers, and Reinforcement Learning for Scalable Personalized Book Recommendations", highlights cutting-edge advancements in AI-driven personalization techniques and showcases impactful interdisciplinary research in machine learning and data analytics.



Prof. Sharanabasappa Tadkal has successfully completed all requirements for the CC Domain 4: Network Security certification. Issued on June 3, 2025, this certification demonstrates his expertise and commitment to cybersecurity—specifically in the critical area of Network Security. This credential is valid for three years and is a testament to continued professional growth in a rapidly evolving digital landscape.



We are pleased to share that Dr. Arun Balodi, Professor and Chairman, Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, has served as one of the editors of the recently published book titled "Security and Privacy Issues for IoT and WSN-Based Real-Time Applications." Published by CRC Press, Taylor & Francis Group under the Chapman & Hall/CRC Cyber-Physical Systems series, this book explores critical issues surrounding the security and privacy of Internet of Things (IoT) and Wireless Sensor Network (WSN) technologies in real-time applications. Notably, the publication has been indexed in Scopus, underscoring its academic value and global recognition. This achievement reflects Dr. Balodi's continued dedication to advancing research and innovation in the field. We extend our heartfelt congratulations to Dr. Arun Balodi and the entire editorial team on this commendable accomplishment.



Departmental Activities

Department Of Computer Science and Engineering

The Department of Computer Science and Engineering, SOE-DSU observed World Environment Day on 5th June 2025 with the theme “Saplings for a Sustainable Future.” The event began with a warm welcome to students, faculty, and staff, followed by an inspiring address by Dr. Girisha G S, Chairperson–CSE, who emphasized the importance of environmental stewardship. As a symbolic act, a sapling was planted by the Chairperson, setting the tone for a day focused on ecological awareness and sustainability.

The celebration included poster presentations, interactive discussions on sustainable living, and a campus-wide tree-planting drive. Students and faculty actively participated by planting saplings across the campus, promoting green practices and environmental consciousness. The event concluded with a collective pledge to adopt eco-friendly habits in daily life.

Conveners: Dr. Udaya Kumar Reddy K R (Dean, SOE), Dr. Girisha G S (Chairperson, CSE), and Prof. Nandini K (Green Warriors Committee, SOE, DSU). Faculty Coordinators: Dr. Savitha Hiremath, Prof. Kavyashree I Pattan, and Prof. Arpita Paria (all from CSE), Student Coordinator: Pavan Kumar G R (4th Sem, CSE).



Department Of CSE (AIML)

To commemorate World Environment Day 2025 (5th June), the Department of CSE (Artificial Intelligence and Machine Learning), Dayananda Sagar University, organized a vibrant and informative event on June 5, 2025, under the theme “Celebrate Environment Day – Sustainable Innovations.” The event featured a Sustainable Product Exhibition, where students showcased creative eco-friendly products and models that promote alternatives to single-use plastics. As part of the celebration, Prof. S.V.K.R. Rajeswari delivered an engaging awareness talk on sustainable practices, emphasizing the use of glass, steel, paper, and cardboard over plastic.

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SCHOOL OF ENGINEERING
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

*Celebrate Environment Day:
Sustainable Product Exhibition*

Innovate Sustainably | Plant Green | Use Recycled
Paper & Eco | Inlet Choice | Renewable
Energy | Reduce, Reuse, Recycle

CHIEF PATRONS:
Dr. B. Hanumanth Sagar, Chancellor, DSU
Dr. B. Prasad Narasimha Sagar, Vice-Chancellor, DSU

STAFF COORDINATORS:
S.V.K.R. RAJESWARI, Assistant Professor, CSE-AI & ML Department

PATRONS:
Dr. JAYESH KARTI, Head, Department of In-Charge, DSU
Dr. HEMANTHARAO C, Registrar - DSU
Dr. SUDIP KUMAR PRAKASH, Dean, DSU DSU

CONVENOR:
Dr. Anupama K. Prasad, Associate Professor, DSU

13th ANNUAL
SUSTAINABLE
WORLD



Department Of CSE (AIML)

The Dept. of CSE (AI & ML), SOE-DSU, organized a warm and memorable farewell on 6th June 2025 for the outgoing batch of 2021–2025. The celebration began with a cheerful welcome by pre-final year students, followed by a group photo session capturing cherished memories. The formal proceedings commenced with heartfelt addresses by Dr. Jayavrinda Vrindavanam, Chairperson, and Dr. Bahubali, Professor, who reflected on shared experiences and offered words of encouragement. A vibrant cultural program set the tone for the day, followed by a certificate distribution ceremony recognizing student excellence across academics, innovation, placements, and leadership. Notable awardees included Juvvi Sai Akshitha (Highest CGPA), C. S. S. Krishna Kaushik (Highest Placement), and Anuj Dwivedi (Club Initiative). Final-year students shared touching reflections on their journey at DSU. The event concluded with a token of appreciation and gift distribution, making it a heartfelt and joyous send-off for the graduating class.



Student Activities

Shashi Kumar C (ENG23DS0034) from the Department of Computer Science and Engineering (Data Science) and Qasim Huzefa Johar (ENG22AS0039) from the Department of Aerospace Engineering participated in the Bharat Drone Stack Conference held on 5th and 6th June 2025 at the Bangalore International Exhibition Centre. Organized by the Drone Federation of India (DFI), this prestigious event focused on the theme “Components Matter, Materials Matter, India Matters,” emphasizing the importance of indigenous development in drone technology. The conference brought together innovators, researchers, and industry leaders to explore advancements in drone components, materials, and systems, reinforcing India’s growing capabilities in the drone ecosystem.



Ms. Naina Kalyanshetti (PH24CSPT14), Research Scholar, Dr. Praveen Kulkarni, Associate Professor, Department of CSE presented a research paper titled “Integrating Multimodal Learning for Scalable Indoor Scene Understanding” in the IEEE 3rd International Conference on Inventive Computing and Informatics (ICICI 2025) held from 4th to 6th June 2025 at S.E.A. College of Engineering and Technology, Bengaluru, Karnataka.



Mr. A Sachin (ENG22CS0002), Mr. Pramod Gurunath Chitrapur (ENG22CS0122), Mr. Aryan Penukonda (ENG22CS0024), Mr. M Naveen (ENG22CS0095), 6th Semester CSE Students, Dr. Praveen Kulkarni, Associate Professor, Department of CSE, and in collaboration with Prof. Chandrakala B M, Department of ISE DSCE, presented a research paper titled “NAVISIGHT: A Deep Learning and Voice-Assisted System for Intelligent Indoor Navigation of the Visually Impaired” in the IEEE 3rd International Conference on Inventive Computing and Informatics (ICICI 2025) held from 4th to 6th June 2025 at S.E.A. College of Engineering and Technology, Bengaluru, Karnataka.



“Samavarthana 2025”

!!Farewell Ceremony for Batch 2021-2025!!

Dayananda Sagar University, School of Engineering, organized Samavarthana 2025, a heartfelt farewell ceremony for the graduating batch of 2021-2025, on June 6, 2025, at the Harohalli Main Campus. Themed “It’s a New Beginning,” the event was meticulously planned by the Department of Student Affairs in collaboration with the School of Engineering to celebrate the students’ academic journey, achievements, and personal growth. The day commenced with interactive departmental sessions and photoshoots, followed by a formal function graced by university dignitaries including the Vice Chancellor, Pro Vice Chancellor, and Registrar, along with special guests Mr. Sudhir Udayakanth and Mr. Krishna Bhakar, who delivered inspiring messages. The event culminated in a vibrant cultural program and DJ session, filled with music, dance, and emotional reflections, creating an atmosphere of joy, nostalgia, and celebration. The ceremony served as a memorable send-off, leaving students with cherished memories and a lasting bond with their alma mater.





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