



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

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



Week#27, (June 30 to 05th July 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

- 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. Bipin Kumar Rai and Prof. Sushma. D.S, Assistant Professor, Department of CSE has participated in the Five Day Faculty Development Program on "DevOps & MLOps", held from 30th June 2025 to 4th July 2025, organized by the Department of CSE (Data Science), School of Engineering, Dayananda Sagar University.



Department Of CSE (Cyber Security)

Dr. Dilip Kumar Jang Bahadur Saini, Associate Professor, CSE (Cyber Security), School of Engineering, Dayananda Sagar University (SOE-DSU), has made notable contributions to research with two recent publications under Springer Nature. His paper titled "Exploiting Machine Learning for Vulnerable Road Users' Protection of Moving Objects on Trajectory Motion: Dealing with Action Transformation Using AI Agent-Based Technologies" was published in the Arabian Journal for Science and Engineering (SCIE Q1), highlighting the application of reinforcement learning in real-world trajectory optimization scenarios. Additionally, his work "Novel Approach for Identification of Ayurveda Plant Using New Age Technology" was published in the Proceedings of the Fourth International Conference on Computing and Communication Networks (ICCCN 2024), Volume 6, showcasing AI-based innovations in the field of Ayurveda plant identification.

- <https://link.springer.com/article/10.1007/s13369-025-10346-z>
- [Novel Approach for Identification of Ayurveda Plant Using New Age Technology | SpringerLink](#)

SPRINGER NATURE Link login

Home > Submissions for review and opening > 2025

Exploiting Machine Learning for Vulnerable Road Users' Protection of Moving Objects on Trajectory Motion: Dealing with Action Transformation Using AI Agent-Based Technologies

Article published for Submissions > Highlighting > Message > Write a review

Submitters: Dilip Kumar Jang Bahadur Saini, Dayananda Sagar University

44 Accesses > Export as HTML >

Abstract

In this study, we analyze a real-world road scene. Our approach is a deep reinforcement learning-based neural network, enabling precise trajectory prediction for the motion of upcoming objects in real-world scenarios. By leveraging reinforcement learning, it

SPRINGER NATURE Link login

Home > Proceedings of the 4th International Conference on Computing and Communication Networks > Conference paper

Novel Approach for Identification of Ayurveda Plant Using New Age Technology

Conference paper | 4 November 2024 | 10.1007/978-981-97-1304-4_10

Proceedings of the Fourth International Conference on Computing and Communication Networks (ICCCN 2024)

Editor(s): Jang Bahadur Saini, Hema Lakshmi Subramini Singh, Sunil Singh, C. S. Rajan et al. > All rights reserved

Part of the book series Lecture Notes in Networks and Systems (LNNS, volume 12942)

Inclusion in the following conference series International Conference on Computing and Communication Networks

41 Accesses

Dr. Durbadal Chattaraj has contributed as a session chair for the International Conference on Emerging Technologies in Computing and Communication (ETCC) held on June 26th – 27th 2025 organized by PES University EC Campus, Bangalore.



Department Of Mechanical Engineering

Ms. K. Sudha Deepthi, Manager – Bosch Rexroth Centre of Competence for Industrial Automation Technologies and Research Scholar, Department of Mechanical Engineering, School of Engineering, Dayananda Sagar University, had the esteemed opportunity to represent DSU and present her research at the University of Oxford, UK, during the IUTAM Symposium on “Chemo-Mechanical Interactions in Aerospace Smart Materials: Effects on Structural Integrity and Flutter Suppression.” Her poster presentation, held until July 2nd, received an enthusiastic response from an international audience of professors, researchers, and experts. The symposium provided a platform for insightful discussions, valuable feedback, and academic recognition, with several distinguished professors commending her work. The research was co-authored by Dr. Kamalbabu (Assistant Professor, Department of Mechanical Engineering, DSU), Dr. Rammohan (Professor, School of Computer Science and Engineering, RV University), and Mr. Kartik S. Tandel (Assistant Professor, Department of Aerospace Engineering, DSU).

Department Of Electronics & Communication Engineering

Prof. Jisy N K, Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, was invited to attend the prestigious 10th edition of the Matrix Global Summit 2025, held on July 1st and 2nd at the NIMHANS Convention Center, Bengaluru. Organized by TiE Bangalore, the summit brought together leading entrepreneurs, innovators, and thought leaders to discuss transformative advancements across sectors such as AI, Robotics, Industry 5.0, 5G, SpaceTech, EVs, AgriTech, HealthTech, and Sustainability—highlighting India's growing leadership in deep-tech innovation.

Adding to the pride, a team of final-year students from the Department of Electronics and Communication Engineering—Deepak Saha (ENG21EC0026), Lakshmithi M (ENG22EC1011), Brijesh N (ENG22EC1004), and Chandana Chitnis (ENG21EC0019)—mentored by Prof. Jisy N K, was selected among the top teams in the Matrix Forum University Awards 2025. The team secured the Second Runner-up Award, earning a cash prize of ₹20,000, a one-year complimentary TiE Bangalore Student Membership, and exclusive mentorship from TiE Bangalore Charter Members.



Dr. Arun Balodi, Chairman of the Department of Electronics and Communication Engineering, SOE-DSU, successfully completed the "Foundations of AI" course under the GenAI Literacy Program by Library Connect Academy, Elsevier, on July 5, 2025. The course covered essential AI concepts, ethical implications, and practical applications, equipping participants with foundational knowledge in artificial intelligence.



Department Of Computer Science and Engineering (AIML)

Dr. Vinutha N and Dr. S. Bahubali, Associate Professors from the Department of Computer Science and Engineering (AI & ML), were awarded Certificates of Appreciation by the College of Pharmaceutical Sciences, School of Health Sciences, DSU. This recognition was conferred for their significant contributions as resource persons in the Faculty Development Programme titled "Applications of AI/ML in Pharmaceutical Teaching and Research," held from 24th to 28th June 2025. Their sessions played a key role in enhancing interdisciplinary knowledge and promoting the integration of Artificial Intelligence and Machine Learning into pharmaceutical education and research. The certificates were signed by Dr. Kalpana Divekar (Coordinator), Dr. Mayur YC (Principal), and Dr. Pushpa Sarkar (Dean).



Department Of Computer Science and Technology

Dr. M. Shahina Parveen, Dr. Santhosh Kumar J, Dr. Nivetha NRP, Prof. Vinayaka and Prof. Junaid attended five days Faculty Development Programme on “DevOps & MLOps” held from June 30th to July 04th, 2025, organised by the Department of CSE (Data Science), School of Engineering, Dayananda Sagar University, Bangalore.



“MoU Signing Between DSU and NexusIQ Solutions”

The Department of Computer Science and Engineering (Data Science), School of Engineering, Dayananda Sagar University, organized a Memorandum of Understanding (MoU) signing ceremony with NexusIQ Solutions LLP, Hyderabad on 3rd July 2025 at the Board Room. Chaired by Dr. Shaila S. G, Professor & Chairperson, and Dr. Suresh A, Associate Professor, the event marked a significant academic-industry collaboration. NexusIQ Solutions, a leading firm in AI-driven automation and enterprise solutions, will collaborate with DSU to facilitate industry-led training, joint research, innovation challenges, curriculum enhancement, faculty development programs, and access to cutting-edge tools and technologies. This MoU is a strategic step toward strengthening industry-academia linkage and fostering real-world learning opportunities for students and faculty.



Departmental Activities

Department Of Computer Science and Engineering

The Department of Computer Science & Engineering, School of Engineering, Dayananda Sagar University, organized a one-week Hands-On Training Programme from 30th June to 4th July 2025 at A-506, exclusively for newly joined and nominated teaching and non-teaching staff members. The training aimed to enhance participants' practical skills and foundational knowledge in core Computer Science subjects. The sessions covered key topics such as Data Structures using C, Digital Logic Design with FPGAs, Machine Learning using Python, Operating Systems using C, C Programming, and Python Programming. Delivered by expert faculty, the programme provided valuable exposure to lab-based learning and practical implementation techniques. The initiative was convened by Dr. UdayaKumar Reddy KR (Dean, SoE) and Dr. Girisha G S (Chairperson, CSE, SoE), with active coordination by faculty members Prof. Santhosh M, Prof. Manoj Kumar N I, and Prof. Gaurav Kumar.



DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
Department of Computer Science and Engineering

Programme Details:

Sl. No.	Date	Topic	Speaker Name	Time
1	30/06/2025	Introduction to C Programming	Dr. Udaya Kumar Reddy KR	10:00 AM - 12:00 PM
2	01/07/2025	Data Structures using C	Dr. Girisha G S	10:00 AM - 12:00 PM
3	02/07/2025	Digital Logic Design with FPGAs	Prof. Santhosh M	10:00 AM - 12:00 PM
4	03/07/2025	Machine Learning using Python	Prof. Manoj Kumar N I	10:00 AM - 12:00 PM
5	04/07/2025	Operating Systems using C	Prof. Gaurav Kumar	10:00 AM - 12:00 PM

Faculty in Charge:
Dr. Udaya Kumar Reddy KR
Dr. Girisha G S
Prof. Santhosh M
Prof. Manoj Kumar N I
Prof. Gaurav Kumar



Department Of CSE (Data science)

The Department of CSE (Data Science), School of Engineering, Dayananda Sagar University, successfully organized a five-day Faculty Development Program (FDP) on “DevOps & MLOps” from 30th June to 4th July 2025, under the guidance of Dr. Shaila S G, Professor & Chairperson, CSE (DS). With over 100 registrations and 80+ active participants, the FDP featured expert-led sessions from Fractal Analytics and Saphthagiri NPS University, covering essential tools like Git, Docker, Jenkins, Kubernetes, MLflow, and Airflow. Each day focused on practical implementation of DevOps and MLOps concepts, culminating in real-time project presentations. Coordinated by Dr. Suresh A, Prof. Sindhu A, Prof. Manjula M, and Prof. Godhandaraman, the program received enthusiastic participation from faculty, HoDs, and postgraduate students. The FDP aligns with SDG 4 (Quality Education) and SDG 9 (Industry, Innovation & Infrastructure), reflecting DSU’s commitment to academic excellence and industry relevance.



Student Activities

Mr. Omkar S G (ENG23CS0128) and Mr. Prajwal Jyotiba Shindhe (ENG23CS0137) 3rd year CSE students have attended a Bootcamp in IIT Goa named as "Fundamentals of Drone Systems and AI/ML for Drone Vision Bootcamp 14" which is funded by MeitY, Govt. of India from 30th June to 4th July 2025.



Mr. Nilesh Sarkar (ENG23RA0038) has been offered an internship position at Moog India Technology Center Pvt. Ltd., under the IT Development Serve & Support department, for the period from 24th June 2025 to 22nd August 2025.

MOOG

23 June 2025

Internship Letter

This is to confirm that Nilesh Sarkar has been offered internship in Moog India Technology Center Pvt. Ltd., for IT Development Serve & Support department.

Internship period will last from 24 June 2025 to 22 Aug 2025.

For Moog India Technology Center Pvt. Ltd.,

Nilesh Kumar M
Senior Manager - Human Resources

MOOG INDIA TECHNOLOGY CENTER PVT. LTD.

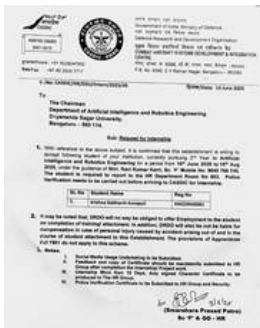
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Ms. SREDEVI SREEDHAR (ENG23RA0019) actively participated in and successfully completed a 45-hour Summer Bootcamp/Internship Program on AI-IoT-Next Gen Robotics, conducted in hybrid mode by Techobytes Technologies in collaboration with E-Cell, IIT Hyderabad, from 25th June to 29th June 2025. The intensive training program, held at IIT Hyderabad, integrated both theoretical and practical components and culminated in a project submission. The certification awarded to her reflects her dedication and hands-on involvement in the domain of Next Gen Robotics powered by Integrated IoT and AI.



Mr. Krishna Siddharth Kunapuli (ENG23RA0061), a 2nd-year student of Artificial Intelligence and Robotics Engineering at Dayananda Sagar University, has been selected for an internship at Combat Aircraft Systems Development & Integration Centre (CASDIC), DRDO, Bengaluru. The internship will take place from 16th June 2025 to 15th August 2025 under the mentorship of Shri Ravi Kumar Karri, Sc. 'F'.



Ms. Vrinda Katavkar (ENG23RA0024) has been offered a 6-week virtual internship at InternPro as an AIML Intern in the Information Technology department, commencing from 7th July 2025. The internship involves working on real-world client projects under the mentorship of Mr. Donesh Kumbhare, with a focus on developing technical skills in AI and machine learning.



Shashi Kumar C (ENG23DS0034) from the Department of CSE (Data Science), School of Engineering, Dayananda Sagar University, actively participated in two prestigious national-level programs aimed at enhancing technical skills in emerging technologies. He successfully completed the “Micropython for Beginners” course organized by the National Institute of Electronics & Information Technology (NIELIT), Calicut, held from 25th to 29th June 2025. Following this, he attended a Bootcamp on “Fundamentals of Drone Systems and AI/ML for Drone Vision”, conducted by the Centre for Drone Application, IIT Goa, from 30th June to 4th July 2025, under the MeitY-funded project “Capacity Building for Human Resource Development in Unmanned Aircraft Systems”, initiated by the Government of India. These engagements reflect his dedication to continuous learning and innovation in frontier technologies.





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