



# SCHOOL OF ENGINEERING

## SOE-BULLETIN

The Official Newsletter of **School of Engineering**



# 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. Carry out 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.

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# SCHOOL OF ENGINEERING



## INTERNATIONAL ACTIVITIES

## “The Relational Model changed our world 50 years ago: what we never talk about”

The Department of Computer Science and Engineering (Data Science) at Dayananda Sagar University (DSU), in association with IEEE ITS, and in collaboration with DSU International Affairs successfully organized a workshop titled "The Relational Model Changed our World 50 Years ago: what we never talk about" for the students of the School of Engineering. Event organized by Manjula M, Sindhu A, and Godhandaraman T Assistant Professors of CSE(Data Science), On March 28th, 2025, Dr. Sebastian, the esteemed Dean of the DSTI School of Engineering, France. The session was designed to engage students in a hands-on learning experience regarding data management, with a particular focus on the significance of the relational model in the evolution of database systems.

Dr. Sebastian started by introducing the relational model, pioneered by Dr. E.F. Codd in the early 1970s. He explained how this groundbreaking model revolutionized data storage and retrieval, shifting away from traditional hierarchical and network models.



## Technical Talk on “Machine Learning-Based Segmentation in Cone Beam Tomographic Imaging”

Dr. Mikhail N Rychagov from the National Research University of Electronic Technology (MIET), Moscow, visited Dayananda Sagar University's Department of CSE (AI & ML) on March 24, 2025, to foster international academic collaboration. As part of his visit, he delivered a technical seminar on "Machine Learning-Based Segmentation in Cone Beam Tomographic Imaging" to 6th-semester B.Tech CSE (AI & ML) students. His talk focused on 2D and 3D machine learning-based segmentation techniques in cone beam computed tomography (CBCT). He discussed his research on segmenting teeth and bones using advanced computer vision algorithms, addressing key challenges such as noise reduction, anatomical landmark detection, and accurate boundary delineation in volumetric medical data. Dr. Rychagov also provided insights into deep learning model design and training for medical image segmentation, covering performance metrics, dataset considerations, and clinical applications.



The poster features the Dayananda Sagar University logo at the top left and right. The central text reads: **DAYANANDA SAGAR UNIVERSITY**, Harohalli, Kanakapura Road, Bangalore South-562112. Below this is the **SCHOOL OF ENGINEERING** and **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)**. The event title is **MACHINE LEARNING BASED SEGMENTATION IN CONE BEAM TOMOGRAPHIC IMAGING**. The speaker is **Prof. MIKHAIL N. RYCHAGOV, Dr.Sc**, with his affiliation: Institute of Systems & Software Engineering and Information Technology, National Research University of Electronic Technology (MIET), Moscow. A circular portrait of Prof. Rychagov is on the right. The poster lists **CONVENERS** (Dr. D. Hemachandra Sagar, Dr. D. Premchandra Sagar, Dr. Amit Bhatt, Dr. Puttamadappa C, Dr. Udaya Kumar Reddy, Dr. Ramesh R Galigekere, Dr. Kousalya Govardhanan, Dr. Jayavrinda Vrindavanam V) and **COORDINATORS** (Dr. ABDUL HAQ NALBAND, Dr. SUGANDHA SAXENA). Event details include **Date: 24 th March 2025**, **Venue: SOE A BLOCK LH-02**, and **Time: 11 am Onwards**.

**DAYANANDA SAGAR UNIVERSITY**  
Harohalli, Kanakapura Road, Bangalore South-562112

**SCHOOL OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)**

**MACHINE LEARNING  
BASED SEGMENTATION IN  
CONE BEAM TOMOGRAPHIC IMAGING**

**Prof. MIKHAIL N. RYCHAGOV, Dr.Sc**  
Institute of Systems & Software Engineering and Information Technology  
National Research University of Electronic  
Technology (MIET), Moscow

**CONVENERS:**

- **Dr. D. Hemachandra Sagar**  
Chancellor, DSU
- **Dr. D. Premchandra Sagar**  
Pro-Chancellor, DSU
- **Dr. Amit Bhatt**  
Vice Chancellor In Charge, DSU
- **Dr. Puttamadappa C**  
Registrar, DSU
- **Dr. Udaya Kumar Reddy**  
Dean, SOE, DSU
- **Dr. Ramesh R Galigekere**  
Dean (Acad) Science & Technology
- **Dr. Kousalya Govardhanan**  
Dean [RRD]
- **Dr. Jayavrinda Vrindavanam V**  
Professor & Chairperson CSE (AI & ML), DSU

**COORDINATORS:**

- **Dr. ABDUL HAQ NALBAND**  
ASSOCIATE PROFESSOR CSE (AI&ML) Dept.
- **Dr. SUGANDHA SAXENA**  
ASSISTANT PROFESSOR CSE (AI&ML) Dept.

**Date**  
24 th March 2025

**Venue**  
SOE A BLOCK LH-02

**Time**  
11 am Onwards



## “Research Article Writing, Research Proposal Writing, and Global Collaboration”

A seminar on "Research Article Writing, Research Proposal Writing, and Global Collaboration" was conducted on the 5th of March 2025 by Prof. Kalaivani Chellappan from Kebangsaan University, Malaysia. The session was aimed at providing insights into effective research writing techniques, the formulation of impactful problem statements, and fostering global research collaborations. Prof. Kalaivani emphasized the importance of defining a clear and compelling problem statement in research. She discussed various strategies for identifying research gaps and ensuring that the problem statement aligns with current global challenges. She highlighted that a well-structured problem statement should be specific, measurable, and relevant to the chosen domain. The seminar was highly informative and provided valuable guidance on different aspects of research writing and collaboration.



## “Immersion in Entrepreneurship, Research and Global Collaboration”

The Department of Computer Science and Engineering organized an engaging session titled "Immersion in Entrepreneurship, Research, and Global Collaboration" on March 5, 2025, aimed at fostering entrepreneurial thinking among students. The event began with an insightful discussion on starting up with an innovative product, followed by a comparison between an entrepreneur and a technopreneur. A unique example involving the development of a perfect idli-making machine was used to illustrate the stages of product development. Key topics included why and how to start a company, and best practices for presenting ideas in a professional setting. The primary objective of the session was to explore the complete lifecycle of a startup, share essential Do's and Don'ts, and highlight the importance of learning from failure in the journey toward becoming a successful entrepreneur.

The poster is for an event titled "Immersion in Entrepreneurship, Research and Global Collaboration". It is organized by the Department of Computer Science and Engineering, in collaboration with the Department of International Affairs, Entrepreneurship - Cell. The event is part of a "Scholar In Residence Programme" and is presented by Dr. Kalaivani Chellappan, PhD, PTech, from Universiti Kebangsaan Malaysia. The event is scheduled for March 5, 2025, from 10 AM onwards, at venue LH-01, SOE. The poster features logos of Dayananda Sagar University, Bengaluru, and the Institution's Innovation Council. The background of the poster shows a large, classical building.

Dayananda Sagar University Bengaluru

DSU Main campus, Devarakaggalahalli, Kanakapura road, Harohalli, Ramanagara (D), Bengaluru-562112.

Department of Computer Science and Engineering  
with  
Department of International Affairs, Entrepreneurship - Cell  
presents

**Scholar In Residence Programme  
on**

**Innovate, Publish, and Scale: A 3-Day Immersion in  
Entrepreneurship, Research, and Global  
Collaboration**

**DATE: 05.03.2025  
TIME: 10AM ONWARDS  
VENUE: LH-01, SOE.**

Dr. Kalaivani Chellappan, PhD, PTech  
Universiti Kebangsaan Malaysia



Ramanagara, Karnataka, India  
Dayananda Sagara Mdc, Karnataka 562112, India, Ramanagara,  
Karnataka 562112, India



Ramanagara, Karnataka, India  
Dayananda Sagara Mdc, Karnataka 562112, India, Ramanagara,  
Karnataka 562112, India  
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Ramanagara, Karnataka, India  
Dayananda Sagara Mdc, Karnataka 562112, India, Ramanagara,  
Karnataka 562112, India  
Lat 12.66242° Long 77.45052°  
05/03/2025 11:19 AM GMT +05:30



## “Innovation Patent Drafting and Startup Workshop”

The Innovation, Patent Drafting and Startup Registration workshop was conducted on the 3rd, 10th and 11th of March 2025 and over 120 students from 4th and 6th sem attended the workshop. In the workshop, the students were given the opportunity to choose their interests area and identify problems. The entire strength of students were divided into groups and addressed each group with their problem statement. The resource person was very happy to see the active involvement of all the students in giving the problem solution. The innovation disclosure form was shared with students where a resource person and his team explained the different fields in the form, and students started working on their respective problem statements. The session concluded with participants completing the Innovation Disclosure Form, which was reviewed by the resource person, Pranav Bhat, and his team. The top two ideas were awarded, while other innovations were evaluated for potential patent filing.

**3 days Workshop on "Patent Drafting for 4th and 6th Semester Students"**  
Organized by  
Department of Computer Science & Technology

**INNOVATION, PATENT DRAFTING AND STARTUP WORKSHOP**

**Resource person:**  
Mr. Pranav Bhat,  
Chief of Strategist and IP attorney,  
Lestira Research

**Organizers:**  
Dr. D. Sudha  
Asso. Professor, CST  
Prof. Vinayaka V M  
Asst. Professor, CST

**Date:**  
3rd, 10th and 11th March 2025

**Venue:** LH 2 - A Block,  
OSU, Harohalli

**Conveners:**  
Dr. Udaya Kumar Reddy  
Dean School of Eng.  
Dr. Shahina Parveen  
Chair Person, CST

**Objectives :**

- To Equip participants with knowledge of Patent drafting.
- To enable participants to identify and shape their innovative ideas effectively.
- To provide step by step overview of applying for patents and startup registrations.
- To identify top 2 ideas for patents.
- To File 8 patents and taking 2 of them till grants.

**Outcomes:**

- Identification of patentable innovations by the students.
- Filing 8 patents and taking 2 of them till grants.
- Registration of Startups.

**Patrons :**

Dr. D. Hemachandra Sagar  
Chancellor, OSU

Shri. Gollswamy  
Secretary, OSU

Dr. Puttamasappa  
Registrar, OSU

Dr. D. Premachandra Sagar  
Pro-Chancellor, OSU

Dr. Anil B. Bhatt  
Vice-Chancellor, OSU

Dr. Udaya Kumar Reddy  
Dean - SOE

**Organizers**  
Dr. D. Sudha  
Asso. Professor, CST  
Prof. Vinayaka V M  
Asst. Professor, CST

**Chairperson**  
Dr. M. Shahina Parveen  
Professor, CST



## “National Science Day, 2025”

The Department of Basic Sciences organized a workshop on 28th February 2025, from 10:30 am to 4:30 pm to recognize the significance of the National Science Day on the theme “Empowering Indian Youth for Global Leadership in Science & Innovation for Viksit Bharat.” The Dean (SoE), Dr. Udaya Kumar Reddy; Chairman, Dept. of Physics; Chairman, Department of Chemistry; and the resource person, Prof. K. Ramesh, Principal Research Scientist, Indian Institute of Science, Bangalore, presided over the ceremony. Dr. Sai Prasad Nayak, Assistant Professor in the Chemistry Department, gave the welcome message accompanied by an invocation song by Dr. Arun. Dr. K. Vijay Kumar gave the first speech on the significance of National Science Day; the Dean then highlighted the importance of science in the real world. The resource person delivered an expert talk on "Advanced Materials and Technology". In honor of the resource person and others, the Department of Basic Sciences' chairpersons distributed mementos.



## Workshop on “PyLIB”

The PyLIB Workshop was successfully conducted by the Department of CSE (AI&ML), Dayananda Sagar University (DSU), on 28th February 2025, attracting over 270 participants eager to enhance their Python skills. The workshop provided hands-on experience with essential Python libraries –NumPy, Pandas, and Matplotlib—focusing on data analysis, scientific computing, and visualization. A highlight of the event was the implementation of a mini-JARVIS project, showcasing AI applications in real-world scenarios.

The event commenced with insightful talks from faculty members, emphasizing the significance of strong fundamental knowledge for career readiness. The technical sessions, led by a student facilitator, covered key Python concepts, including numerical computing with NumPy, data manipulation with Pandas, and data visualization using Matplotlib. The afternoon session featured the JARVIS project, integrating speech recognition, text-to-speech, and OpenAI APIs to create a voice assistant.





## Faculty Training on Large Language Models (LLMs) “SOFTWARE ENGINEERING USING LLMS – DEVELOPING A FORECASTING SOLUTION”

The Faculty Training: Large Language Models (LLMs) was successfully conducted by the Department of CSE (AI&ML) in collaboration with the Center for Research and Innovation in AI (CRIA) and the School of Computer Applications, on 12th March 2025, the event "Software Engineering Using LLMs – Developing a Forecasting Solution", conducted by the resource person Dr. J. B. Simha, CTO of Abiba Systems, Bengaluru, explored the role of Large Language Models (LLMs) in software engineering, particularly in predictive analytics. The session covered how LLMs enhance automation, improve forecasting accuracy, and optimize decision-making.

Dr. Jayavrinda Vrindavanam, Chairperson, Dept. of CSE (AI&ML), Dr. Udaya Kumar Reddy, Dean, SOE, and Dr. Sentil, Dean, the School of Computer Applications, emphasized the significance of LLMs in modern AI applications. Dr. J. B. Simha explained the architecture of LLMs, data representation methods, learning techniques (supervised, unsupervised, iterative), and reasoning approaches (probabilistic, approximate). He also discussed ARIMA and Fuzzy Time Series for forecasting.

A hands-on session introduced participants to Shiny, an R-based framework for interactive data visualization, demonstrating its application in forecasting dashboards.

The poster is for a faculty training event titled "SOFTWARE ENGINEERING USING LLMS – DEVELOPING A FORECASTING SOLUTION". It is organized by the School of Engineering, Department of Computer Science and Engineering (Specialized in Artificial Intelligence and Machine Learning), and the Center for Research and Innovation in AI (CRIA) at Dayananda Sagar University. The event is in association with the School of Computer Applications. The resource person is Dr. J. B. Simha, CTO of Abiba Systems, Bengaluru. The event is scheduled for 12th March, 2025, from 11:00 AM to 1:00 PM, at SOE, A 508. The poster also lists the staff coordinators: Dr. Balakrishna Dhanraj (Professor, CSE(AI & ML)) and Dr. Hanumanth Srinivasa Sella (Professor, CSE(AI & ML)).

**DAYANANDA SAGAR UNIVERSITY**  
SCHOOL OF ENGINEERING  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
(SPECIALIZED IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)  
CENTER FOR RESEARCH AND INNOVATION IN AI (CRIA)  
In Association with  
SCHOOL OF COMPUTER APPLICATIONS  
Faculty training: Large Language Models (LLMs)

**SOFTWARE ENGINEERING USING LLMS – DEVELOPING A FORECASTING SOLUTION**

**RESOURCE PERSON**  
Dr. J. B. Simha  
CTO, Abiba Systems, Bengaluru.

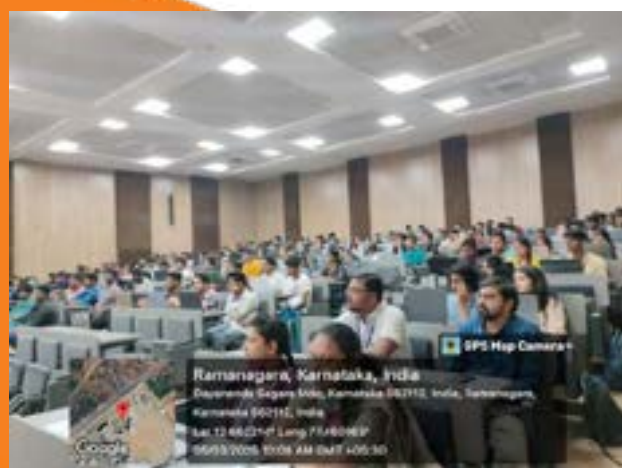
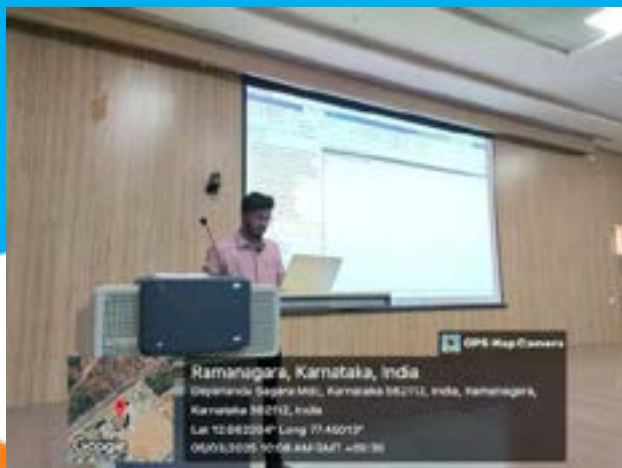
12th March, 2025  
11:00 AM to 1:00 PM  
SOE, A 508

**STAFF COORDINATORS**  
Dr. Balakrishna Dhanraj  
Professor, CSE(AI & ML)  
Dr. Hanumanth Srinivasa Sella  
Professor, CSE(AI & ML)  
Prof. Pradeep Kumar K  
Assistant Professor, CSE(AI&ML)



## “Predictive Power: MATLAB for Data Science”

The Department of Computer Science and Engineering (Data Science) at Dayananda Sagar University (DSU), in association with IEEE ITS, DataScience@DSU Club, and MathWorks, successfully organized a workshop titled "Predictive Power: MATLAB for Data Science" on the 5th of March, 2025, from 9:30 AM to 4:30 PM. The workshop aimed to provide students and faculty with hands-on experience and insights into the application of MATLAB for data science and predictive analytics. The event was meticulously organized by Prof. Shivamma D, Assistant Professor, and Prof. Monish L, Assistant Professor, Department of CSE (Data Science). Their efforts in coordinating with MathWorks and IEEE ITS played a crucial role in the workshop's success.



## Hands-on workshop on “Industrial IoT for Automation”

The DataScience@DSU Club, under the IEEE Information Theory Society student chapter of the Department of CSE (Data Science), successfully organized a hands-on workshop on “Industrial IoT for Automation” from March 10th to 12th, 2025. The event was coordinated by Dr. Shaila S G, Professor and Chairperson (DS), along with Prof. Mahendra M K and Prof. Chandrakala L, Assistant Professors, with the support of dedicated student volunteers. The workshop witnessed enthusiastic participation from over 150 students, who engaged in practical sessions focused on the applications of IoT in industrial automation. The sessions were led by experienced resource persons from Karunadu Technologies Pvt. Ltd., including Mr. Mahesh Deginal (Manager and CEO), Mr. Harish (CTO and Co-Founder), and Mr. Nithesh Kumar (Software Engineer), who provided valuable industry insights and guided students through real-time use cases and project demonstrations.





**Ramanagara, Karnataka, India**  
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Karnataka 562112, India  
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Note : Captured by GPS Map Camera

## Faculty Development Program on “Low-Frequency NVH and Automotive Applications Using Abaqus”

The Faculty Development Program (FDP) on "Low-Frequency NVH and Automotive Applications Using Abaqus" was inaugurated on 24th March 2025 at 10:00 AM in Lecture Hall 3, DSU Campus. The event was formally inaugurated by Mr. Krishna Balamurali, Principal Engineer at NV Dynamics, Bengaluru, who also delivered a highly engaging and insightful invited talk. His presentation focused on the concepts of Noise, Vibration, and Harshness (NVH) in the automotive sector. The session effectively set the tone for the FDP by establishing the industrial relevance and future scope of NVH, and encouraging participants to adopt an interdisciplinary approach to research and teaching in this domain. Following the inaugural address, Dr. Mohan Godse, the resource person for the FDP, conducted the first technical session, providing participants with a comprehensive introduction to the fundamentals of NVH.





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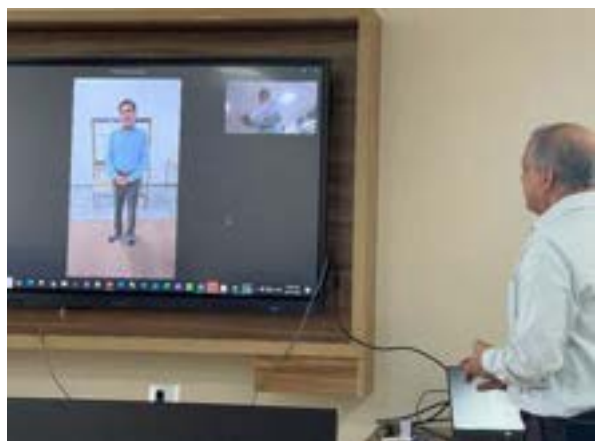
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Karnataka 562112, India  
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28/03/2025 09:44 AM GMT +05:30

## Workshop on “Autonomous System” Certification Program

The Department of Electronics and Communication Engineering at Dayananda Sagar University organized a one-day workshop on "Autonomous System" on March 3, 2025. This workshop provided students with an in-depth understanding of robotics and automation in real-world applications, offering hands-on experience in building and programming autonomous robots. A total of 100 students, from first to fourth year, actively participated in the workshop, engaging with IR sensors, PID controllers, and obstacle avoidance applications. These concepts are crucial for developing skills in advanced robotics, sensor integration, real-time communication, and control systems, which are essential for careers in automation and AI-driven industries. Additionally, students from the Vemana Institute of Technology also took part in the workshop, further enriching the learning experience. We extend our heartfelt gratitude to Dr. Pushpa P.V., Dr. Navya R., and student organizers Pannati S. and Jayashree E. for their dedicated efforts in making this workshop a success. A special thanks to Safear Defense Private Limited for sharing the latest advancements in robotics technology.

Join the Exclusive Workshop at  
Dayananda Sagar University  
(Electronics & Communication Department)

# Workshop on Autonomous Systems

Work with sensors,  
microcontrollers & automation!

WHAT WILL YOU LEARN?

- **Microcontrollers & Gesture Recognition** – Program MCU sensors for real-time gesture control.
- **Embedded Systems & Signal Processing** – Utilize microcontrollers and sensor data for automation.
- **Motor Control & Precise Movement** – Implement motor drivers and PID algorithms for smooth navigation.

3 MARCH 2025  
MONDAY

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Dean-SOE  
Dr. Uday Kumar Reddy

Organisers	Organisers	Convener	Trainers	Coordinators
Dr. Navya R.	Dr. Pushpa P.V.	Dr. Arun Balodi	Safear Defense Pvt. Ltd.	Pannati Jayashree E.

+91 8840647690

sael@safearindia@gmail.com



## Faculty Development Programme on “Emerging Trends in FPGA-Machine Learning in VLSI”

The Department of Electronics and Communication Engineering, Dayananda Sagar University, in collaboration with ECIT IIT Roorkee, successfully organized a five-day Faculty Development Programme (FDP) on "Emerging Trends in FPGA-Machine Learning in VLSI" from February 10–14, 2025, in hybrid mode. The FDP received an overwhelming response, with 93 participants actively engaging in technical sessions and hands-on training. The event delved into the intersection of AI and FPGA, providing in-depth exposure to cutting-edge research, AI tools, and hardware implementation techniques. The sessions covered key topics such as FPGA in AI acceleration, convolutional neural networks, approximate hardware accelerators, data visualization using Python, and deep learning model implementation on hardware. Renowned experts, including Prof. Sanjeev Manhas (IIT Roorkee), Dr. Anand Bulusu (IIT Roorkee), Dr. C.P. Ravikumar (IIT Madras & IIIT Dharwad), and industry leaders from MathWorks, Lekha, and Sperry Marine, delivered insightful lectures.

The collage consists of several panels:

- Dayananda Sagar University:** A panel with the university logo and a list of Chief Patrons, Patrons, and FDP Organizers.
- ECIT IIT Roorkee:** A panel with the ECIT logo and text: "An Initiative of Ministry of Electronics & Information Technology, Government of India. FIVE-DAYS FACULTY DEVELOPMENT PROGRAM ON EMERGING TRENDS IN FPGA-ACCELERATED MACHINE LEARNING IN VLSI. 10 Feb 2025 - 14 Feb 2025. ORGANIZED BY DAYANANDA SAGAR UNIVERSITY, SCHOOL OF ENGINEERING. Hybrid: Hybrid Mode." It also features the CEBA logo.
- ABOUT ECIT:** A panel describing ECIT as a Department of Electronics and Communication Engineering, established in 2005, offering a 5-year program in Embedded Systems for Electronics, with curriculum offerings and fundamental concepts with practical applications through rigorous full-time and challenging projects.
- ABOUT FDP:** A panel stating the FDP is a 5-day online programme aimed at enhancing research capabilities, primarily for researchers and professionals working on FPGA, Machine Learning in VLSI domains. It mentions that research scholars and professors have received notices and more than 9000 participants will share their learning experiences.
- OBJECTIVES OF FDP:** A panel listing objectives such as providing E.L.O activities, technical updates, and a forum for research networking.
- TOPICS TO BE COVERED:** A panel listing topics like Fundamentals of FPGAs, Machine Learning Algorithms for FPGAs, and Emerging Trends in FPGA development tools and kits.
- WHO SHOULD ATTEND?:** A panel stating that faculty members and research scholars from Engineering and Sciences are invited to attend.
- RESOURCE PERSONS:** A panel listing names of experts such as Dr. Sanjeev Manhas, Dr. C.P. Ravikumar, Dr. Anand Bulusu, and others from various institutions.
- DSU Highlights:** A panel listing key features of Dayananda Sagar University, such as its 100th anniversary, research focus, and infrastructure.
- Registration Details:** A panel providing contact information for registration, including the phone number 080-26081000.



Dayananda Sagar University  
Bangalore  
Department of Information and Communication Engineering  
EICT Academy, IIT Roorkee  
A Joint Initiative by MIIIT & IIT Roorkee

Time	Dec 1, 2024 (Sat)	Dec 2, 2024 (Sun)	Dec 3, 2024 (Mon)	Dec 4, 2024 (Tue)	Dec 5, 2024 (Wed)
9:00 AM to 11:00 AM	<p>Lecture 1: Introduction &amp; Expectations from IIT Roorkee Dr. Sangeeta Mishra (IITR)</p>	<p>Lecture 2: Theory: C.P. Architecture Topic: FPGA in AI Acceleration Dr. Sangeeta Mishra (IITR)</p>	<p>Lab Session: Welcome to LabSend Topic: Prof. Sangeeta Mishra (IITR)</p>	<p>Lecture 3: Theory: AI Acceleration in GPUs based applications Dr. Sangeeta Mishra (IITR)</p>	<p>Lecture 4: Theory: AI Acceleration in GPUs based applications Dr. Sangeeta Mishra (IITR)</p>
11:00 AM to 1:00 PM	<p>Lecture 2: Theory: Introduction of Deep Learning in AI/ML Topic: Deep Dive into FPGA based AI/ML Dr. Sangeeta Mishra (IITR)</p>	<p>Lecture 3: Theory: AI Acceleration in GPUs based applications Topic: FPGA in AI Acceleration Dr. Sangeeta Mishra (IITR)</p>	<p>Lecture 4: Theory: AI Acceleration in GPUs based applications Topic: FPGA in AI Acceleration Dr. Sangeeta Mishra (IITR)</p>	<p>Lecture 5: Theory: AI Acceleration in GPUs based applications Topic: FPGA in AI Acceleration Dr. Sangeeta Mishra (IITR)</p>	<p>Lecture 6: Theory: AI Acceleration in GPUs based applications Topic: FPGA in AI Acceleration Dr. Sangeeta Mishra (IITR)</p>
1:00 PM to 3:00 PM	<p>Lecture 11: Theory: AI Acceleration in GPUs based applications Topic: FPGA in AI Acceleration Dr. Sangeeta Mishra (IITR)</p>	<p>Lecture 12: Theory: AI Acceleration in GPUs based applications Topic: FPGA in AI Acceleration Dr. Sangeeta Mishra (IITR)</p>	<p>Lecture 13: Theory: AI Acceleration in GPUs based applications Topic: FPGA in AI Acceleration Dr. Sangeeta Mishra (IITR)</p>	<p>Lab Session: Embedded Machine Learning Topic: AI Acceleration in GPUs based applications Dr. Sangeeta Mishra (IITR)</p>	<p>Dr. Sangeeta Mishra (IITR)</p>
3:00 PM to 5:00 PM	<p>Lab Session: Embedded Machine Learning Topic: AI Acceleration in GPUs based applications Dr. Sangeeta Mishra (IITR)</p>	<p>Lab Session: Embedded Machine Learning Topic: AI Acceleration in GPUs based applications Dr. Sangeeta Mishra (IITR)</p>	<p>Lab Session: Embedded Machine Learning Topic: AI Acceleration in GPUs based applications Dr. Sangeeta Mishra (IITR)</p>	<p>Lab Session: Embedded Machine Learning Topic: AI Acceleration in GPUs based applications Dr. Sangeeta Mishra (IITR)</p>	<p>Dr. Sangeeta Mishra (IITR)</p>





## Tech Talk on “Animation and Game Development”

The Maayanic Club, a Game Development and Animation Club, was officially inaugurated on March 26, 2025, by the Department of Computer Science and Engineering at DSU. The launch event featured an inspiring talk by Ms. Deepanjali Sarna, a Game Designer at Zynga and a respected industry professional, who shared valuable insights into the world of game design and development. The session was inaugurated by Dr. Praveen Kulkarni, Associate Professor, who commended the initiative and highlighted the importance of creativity, innovation, and experiential learning in this dynamic field. Dr. Girisha G. S., Chairperson of the CSE Department, expressed his appreciation to Ms. Sarna for her presence and urged students to actively engage with the Maayanic Club as a collaborative space for learning, experimentation, and innovation. The event was coordinated by faculty members Dr. Praveen Kulkarni, Dr. Rajesh T. M., Prof. Shilpa Sudheendran, Prof. Prolay Biswas, and Prof. Bharath B, who will also serve as mentors for the club’s activities.

**DAYANANDA SAGAR UNIVERSITY**  
Dennurappatti, Hoskote, Bangalore Road, Bangalore - 562113  
Karnataka, India  
Department of Computer Science & Engineering

WE CORDIALLY INVITE YOU TO THE  
INAUGURATION OF  
**MAAYANIC**  
ANIMATION & GAME DEVELOPMENT CLUB

 From Pixels to Professions  
A Talk on Game Development  
**Deepanjali Sarna**  
Game Designer and pPride Studio Lead  
at Zynga

26 March, 2025 10:30 AM Lecture Hall 3

**Faculty Coordinators**  
Dr. Praveen Kulkarni  
Dr. Rajesh T. M.  
Prof. Shilpa Sudheendran  
Prof. Prolay Biswas  
Prof. Bharath B

  
**REGISTER NOW!**  
(ONLY INTERESTED)

**Student Coordinators**  
Tejas K M +91 8660496664  
Shishira Chandra V +91 637590793

 maayanicdsu  
 maayanicclub@gmail.com



**Ramanagara, Karnataka, India**  
Dayananda Sagara Mdc, Karnataka 562112,  
India, Ramanagara, Karnataka 562112, India  
Lat 12.662222° Long 77.450142°  
26/03/2025 10:59 AM GMT +05:30



**Ramanagara, Karnataka, India**  
Dayananda Sagara Mdc, Karnataka 562112,  
India, Ramanagara, Karnataka 562112, India  
Lat 12.662222° Long 77.450124°  
26/03/2025 11:03 AM GMT +05:30



**Ramanagara, Karnataka, India**  
Dayananda Sagara Mdc, Karnataka 562112,  
India, Ramanagara, Karnataka 562112, India  
Lat 12.662221° Long 77.450152°  
26/03/2025 10:58 AM GMT +05:30



**Ramanagara, Karnataka, India**  
Dayananda Sagara Mdc, Karnataka 562112,  
India, Ramanagara, Karnataka 562112, India  
Lat 12.66221° Long 77.450113°  
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**Ramanagara, Karnataka, India**  
Dayananda Sagara Mdc, Karnataka 562112,  
India, Ramanagara, Karnataka 562112, India  
Lat 12.662225° Long 77.450135°  
26/03/2025 11:07 AM GMT +05:30

## Alumni Talk – “Application of Satellite Image Processing”

The Department of Computer Science and Engineering, in collaboration with the VIVA Club, organized an insightful Alumni Talk on March 6, 2025, featuring distinguished alumni Shruti B. Yalgudri and Sumukh Sankarshana M. The session was inaugurated by Dr. Rajesh T. M., Associate Professor, who emphasized the alumni’s notable contributions to research and innovation. During the talk, Shruti and Sumukh shared their inspiring career journeys, reflecting on their early experiences at DSU. They candidly admitted that research was not their initial focus, but their outlook changed in the second year when they embarked on the project “Satellite Image Processing”, which sparked their passion for research. Dr. Girisha G. S., Chairperson of the CSE Department, also addressed the gathering, commending the alumni for their continued engagement and for setting a strong example for current students. The session served as a source of motivation, encouraging students to pursue research and innovation. The event was coordinated by Dr. Rajesh T. M., Dr. Renukadevi M. N., Dr. Praveen Kulkarni, and Dr. Gousia Thahniyath from the Department of CSE.



## “Alumni Talk”

Mr Rohith S and Mr David Paul K esteemed alumni from the department were invited for a talk on 28/3/2024. Mr Rohith Pursuing an MTech in the Dept of Aerospace Engineering IIT Madaras addressed students on topics like preparation for gate exams and how to crack and his MTech Journey at IIT Madaras and Mr David Paul K Application Engineering at Alten briefed the students on preparation for the interviews and opportunities in Aerospace domain.



## “ServiceNow Placement Training”

ServiceNow Placement Training conducted by Placement Cell, DSU was held from 4th March, 2025 to 6th March, 2025 at the LH 2 ‘A Block’ Ground Floor SOE from 9:00 AM to 4:20 PM by Dr. Revathi V, Associate Professor, Dept. of Computer Science and Engineering. Scripting in ServiceNow Fundamentals course is a comprehensive three-day training program designed to equip participants with the essential skills required to effectively manage and configure the ServiceNow platform. To bridge the gap between training and employment, ServiceNow collaborates with global and regional placement partners. These partnerships are committed to training individuals in ServiceNow skills as part of the "RiseUp with ServiceNow" initiative. This initiative aims to create opportunities for individuals to develop relevant skills and secure employment in the IT service management industry.





# SCHOOL OF ENGINEERING



**EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES**

## “AI Innovation Day Bhasha Bandhu Hackathon”

On February 25th, 2025, the AI Innovation Day Bhasha Bandhu Hackathon, hosted by the Department of CSE (AI&ML), Dayananda Sagar University (DSU) in collaboration with Bhashini and Microsoft, aimed to address India's linguistic digital divide through AI-driven solutions. The event saw 170+ participants, including students and professionals, working on real-world legal accessibility challenges using Bhashini's AI models and Microsoft's technologies. Bhashini, a MeitY initiative, focuses on AI-powered language translation and digital accessibility. The hackathon provided a platform for participants to develop solutions around legal literacy, mediation awareness, and digital legal accessibility in regional languages. Industry experts, including Lingaraj Benni (NTT DATA) and Prathap Reddy Chenchappagari (Eviden), mentored participants, offering insights into Bhashini APIs, OpenAI, and Microsoft Azure AI. The event followed a structured flow: an inauguration, and mentor sessions, followed by team-based ideation, development, and pitching. Due to time constraints, submissions were evaluated remotely, and results will be announced in the Bhasha Bandhu app. Selected teams will advance to Round 2 at Microsoft's office in March 2025, competing for ₹1 lakh (first prize) and ₹50,000 (second prize) per domain.





## TECHNOHUNT 2025: “A Thrilling Fusion of Technology and Adventure”

The Electro Blitz Club, in association with the Department of Electronics and Communication Engineering, Dayananda Sagar University, successfully organized "TechnoHunt" on March 5, 2025, at the AEC Labs, DSU-SoE. This innovative treasure hunt-style competition, featuring a technological twist, saw enthusiastic participation from 21 teams, each comprising four members. On-spot registrations were also encouraged, adding to the excitement of the event.

**Technical Treasure Hunt:** The event aims to engage students in an interactive and intellectual hardware debugging experience, fostering teamwork and problem-solving skills. The event was hosted by Ms. Aarthi Nayak Ullal (President) and Mr. Pramath Gopal Bhat (Vice President) of the ElectroBlitz Club. Dr. Divyashree H.B., Assistant Professor, ECE Department, DSU, served as the judge for the competition.





## “FIT India Movement Programme 2025”

The FIT India Movement Programme 2025, held on March 7th from 8:30 AM to 2:00 PM, was a vibrant and inspiring initiative aimed at promoting health, wellness, and a culture of fitness among students and faculty at DSU. The event was thoughtfully organized by Prof. Shivamma D. and Prof. Monish L., Assistant Professors from the Department of CSE (Data Science), in collaboration with the Department of Physical Education, led by Dr. Tilak Kumar, Director of Sports, and his team, in association with the Sports Authority of India (SAI). The program was graced by a distinguished panel of delegates from SAI, including Mr. Mahesh (Strength and Conditioning), Mrs. Namrata Pramod (Nutrition), Mr. Vivoto (Anthropometry), Mr. Bibin (InBody India), and Mr. Tejas (Medical Equipment, InBody India), who shared valuable insights into fitness, performance, and health optimization. The university was also honored by the presence of key academic leaders—Dr. Udaya Kumar Reddy, Dean, School of Engineering; Dr. Shaila S G, Chairperson, Department of CSE (Data Science); and Dr. Vinod Kumar K C, Associate Professor, School of Physiotherapy—whose support further highlighted the university’s commitment to holistic development and student well-being.

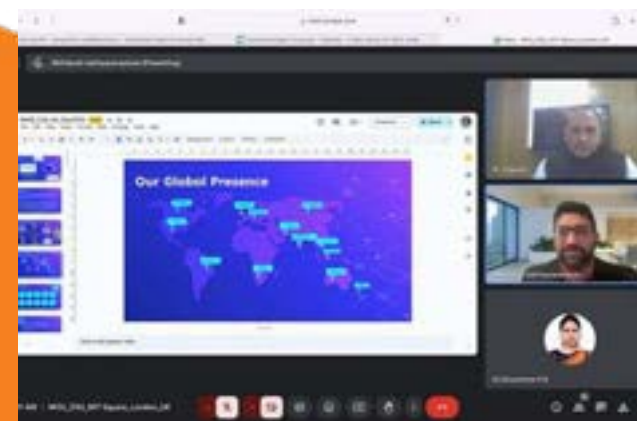


## “Memorandum of Understanding (MoU) Signed Between MIT Square and Dayananda Sagar University”

Dayananda Sagar University (DSU), Bengaluru, signed a Memorandum of Understanding (MoU) with MIT Square Group of Companies, London, on March 14, 2025, marking a significant collaboration in research, innovation, and technology transfer.

Under this agreement, MIT Square will establish a ZERO-COST Global Research Force Centre of Excellence (CoE) at DSU, focusing on Technology Transfer Transformation (T3).

The MoU was initiated by the Department of Electronics and Communication Engineering, with key contributions from Dr. Arun Balodi, Chairman and Professor, Department of ECE; Dr. Divyashree H.B, Assistant Professor, Department of ECE; and Dr. Supraja Ederu, Assistant Professor, Department of ECE. The signing ceremony was graced by Dr. Puttamadappa C, Registrar, DSU; Dr. Udaya Kumar Reddy K R, Dean, SoE, DSU; Dr. Mithileysh Sathiyarayanan, Founder & CEO, MIT Square; Bhuvaneshwari Loganathan, Co-founder & COO; and Sathiyarayanan Kesavaraj, Co-founder & CFO. This collaboration is a milestone in fostering academic-industry partnerships, global research, and innovation-driven entrepreneurship at DSU.



## “SISA – Centre of Excellence in DSU”

Department of Computer Science and Engineering (Cyber Security), in association with SISA, has proudly established the Centre of Excellence (CoE), a pioneering initiative aimed at advancing research, innovation, and industry-driven solutions in the field of cyber security. The inauguration ceremony took place on March 5, 2025, at the School of Engineering, DSU, with distinguished guests Ms. Tanusree Deb Barma, IAS, Deputy Director General, UIDAI, and Mr. Dharshan Shanthamurthy, Founder & CEO, SISA. The CoE will serve as a hub for advanced cyber security research, industry-focused training, digital forensics, and secure coding practices, fostering collaboration between academia, industry, and government agencies. This initiative aims to bridge the gap between theoretical learning and real-world applications, ensuring the development of future-ready cybersecurity professionals.

The poster is a vertical banner with a dark blue background and a subtle grid pattern. It is divided into three main sections. The left section contains event details: a tagline 'Protecting the Future, One Byte at a Time.', the date 'Wednesday 5th March, 2025' with a calendar icon, the time '11:00 AM onwards' with a clock icon, and the location 'Room No - A 403, 4th Floor, A Block, SoE, DSU' with a location pin icon. Below this, it lists 'HOSTING PARTNERS' as the 'SCHOOL OF ENGINEERING' and the 'SISA' logo. The middle section features the logos of 'DAYANANDA SAGAR UNIVERSITY' and 'SISA'. Text includes 'DAYANANDA SAGAR UNIVERSITY', 'SCHOOL OF ENGINEERING', 'Department of Computer Science and Engineering (Cyber Security)', and 'In Association With SISA Welcomes'. Two circular portraits are shown: Ms. Tanusree Deb Barma, IAS, Deputy Director General, UIDAI, and Mr. Dharshan Shanthamurthy, Founder & CEO, SISA. The bottom of the middle section reads 'Inauguration of Cybersecurity Center of Excellence'. The right section lists 'Chief Patrons' (Dr. D. Hemachandra Sagar, Chancellor, DSU and Dr. D. Premachandra Sagar, Pro Chancellor, DSU) and 'Patrons' (Dr. Amit R. Bhoat, Vice Chancellor, DSU; Dr. Puttamadappa C, Registrar, DSU; Dr. Udaya Kumar Reddy K R, Dean, SoE, DSU; Dr. Ramesh R. Galligekere, Dean Academics, SoE, DSU; and Dr. Kousalya G, Dean R & I, DSU).

## Happiness Club Activity: “Art and Music Therapy”

The Happiness Club of SOE organized an engaging and rejuvenating session on Art and Music Therapy as part of its ongoing efforts to promote mental well-being among students and faculty. The activity aimed to help participants explore creative outlets to manage stress, improve focus, and enhance emotional health. The event witnessed enthusiastic participation from over 60 students and faculty members. Participants actively engaged in both art and music activities, sharing their creative works and personal experiences. The atmosphere was filled with positivity and relaxation, as students found the sessions to be a refreshing break from their regular academic routines. The positive feedback from participants reflects the growing importance of mental relaxation and health and the role of creative therapies in achieving emotional balance. The Happiness Club looks forward to organizing similar activities in the future to continue promoting well-being and happiness within the college community.



## “TRADITION 2.0”

Tradition 2.0, an exciting blend of culture and innovation, was successfully organized by the Department of Computer Science and Technology on 7th March. The event aimed to celebrate tradition while integrating modern advancements, fostering creativity and talent among participants.

Tradition 2.0 featured an exciting mix of on-stage and off-stage events, engaging students in various creative and technical competitions. The event was held at LH 02, with enthusiastic participation from students across various disciplines. The competitions witnessed remarkable creativity and innovation, aligning with the theme of blending tradition with modernity. Tradition 2.0 was a grand success, fostering a spirit of innovation while honoring heritage. The event provided students with a platform to showcase their talents, collaborate with peers, and celebrate creativity. The organizers, coordinators, and participants contributed to making the event a memorable experience.

**SRM VELLORE UNIVERSITY**

**SCHOOL OF ENGINEERING**

**DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY PRESENTS**

**TRADITION 2.0**  
INNOVATING THE FUTURE WITH HERITAGE

**VENUE**  
LH 02

**DATE**  
7th MARCH

**OFF Stage Events**  
Pencil Whispers

**ON Stage Event**  
Battle Of the Voices

**Beyond the Flame**  
Junk to Jewels

**Happy Feet**  
CST Charisma

**Pixel Perfect**  
Frame it Again

**Real Reel**  
Mad Ads  
The Grand GetUp

**Once upon A Pen**

**Co-ordinators**  
Dr. Nivetha NSP  
Assistant Professor, CST  
Prof. Junaid MP  
Assistant Professor, CST

**Convenors**  
Dr. Uday Kumar Reddy  
Dean, SOE  
Dr. M. Shahina Farveen  
Chairperson, CST

QR Code for Registration



## “Chess Tournament” - AIML

On 11th March 2025, The Department of CSE(AI&ML) successfully organized a chess tournament within the department. Students came together to play chess, show their skills, and enjoy friendly competition with their peers.

The interdepartmental chess tournament, held in A508, SOE, DSU, was a great success, featuring 23 participants from the 4th and 6th semesters. The event aimed to provide students with an opportunity to showcase their chess skills, foster friendly competition and build connections while taking a break from academics.



**Dayananda Sagar University**  
Devarakaggalahalli, Harohalli, Kanakpura road, Ramanagar

**Department of  
Computer Science & Engineering  
(Artificial Intelligence & Machine Learning)**

PRESENTS

**AIML CHESS TOURNAMENT**



**Exclusive to AI ML Students!**  
11 March 2025  
10:45 onwards  
A -508



For Registration

Time Controls - 10+2  
(OTB)

**Staff Coordinator**  
Prof. SAHIL POCKER  
Asst Prof Dept of CSE(AI ML), SOE, DSU

**Student Coordinator**  
Pritam Wani  
ENG23AM0262

**CONVENERS**  
Dr D Premachandra Sagar  
Pro-Chancellor, DSU  
Dr Puttamadappa C  
Registrar, DSU  
Dr Ramesh R Galigekere  
Dean(Acad) Science & Technology  
Dr Uday Kumar Reddy  
Dean, SOE DSU  
Dr Amit Bhatt  
Vice chancellor in charge, DSU  
Dr. Kousalya Govardhanan  
Dean(R&D)  
Dr. Jayavrinda Vrindavanam V  
Professor & Chairperson CSE(AI&ML), DSU  
Dr D Hemachandra Sagar  
Chancellor, DSU



## “Dance Competition” - AIML

On February 20, 2025, the Anti-Ragging Awareness Activity was conducted by the CSE (AI & ML) Department at Dayananda Sagar University. The event, chaired by Dr. Jayavrinda Vrindavanam V and coordinated by Dr. Shreyas Rajendra Hole, aimed to educate students on the harmful effects of ragging and promote a safe, inclusive campus culture. The program began with a welcome address by Dr. Shreyas Rajendra Hole, who introduced NSS and the significance of anti-ragging awareness. The first activity was an open-place skit titled "The Right Action," performed by students, portraying real-life scenarios where seniors and faculty intervened to foster a respectful and ethical environment. The skit effectively highlighted the importance of mutual respect and the role of authority in preventing ragging. Following this, an Anti-Ragging Awareness Presentation was conducted in classrooms, featuring PowerPoint slides and posters explaining anti-ragging laws, university policies, and consequences for violators.

**DAYANANDA SAGAR UNIVERSITY**  
SCHOOL OF ENGINEERING  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

**DANCE  
COMPETITION**

**27 FEB 2025**  
**ROOM 432 2PM ONWARDS**

Solo and Group Dance performances!

**REGISTER NOW!**  
(AIML STUDENTS ONLY)

**STAFF COORDINATORS:**  
Prof. B.Rakshita  
Assistant Professor, CSE(AI & ML)  
Prof. S.V.R.Rajasewari  
Assistant Professor, CSE(AI & ML)

**ORGANISERS:**  
Dr. Jayavrinda Vrindavanam V  
Dr. Shreyas Rajendra Hole  
Dr. Praveen Chandra Sagar  
Dr. Amit Bham  
Dr. Udaya Kumar Reddy  
Dr. Ramash B Gajjekar  
Dr. Kousalya Govardhanan  
Dr. Jayavrinda Vrindavanam V



## NSS Activity - "JALAVE JEEVA"

"JALAVE JEEVA"-A campaign to save water- An NSS event was organized with the support of the Department of Mechanical Engineering. This campaign was kickstarted by BWSSB, Government of Karnataka in a bid to achieve the Guinness world record for the largest participation of the public where people have to take a pledge to save water. Students of the Mechanical Engineering Department took the pledge to save and conserve water for sustainable usage. Students received certificates for participating in the pledge by the Government of Karnataka.

**GUINNESS WORLD RECORDS® Attempt**  
**MOST PLEDGES RECEIVED FOR A WATER CONSERVATION CAMPAIGN (1 WEEK)**  
**ಜಲ ಸಂರಕ್ಷಕರಾಗಿರುವ ತಮಗೆ ಅಭಿನಂದನೆಗಳು**  
**CONGRATULATIONS FOR BEING A WATER SAVER!**

Record Attempt  
 Date: 21st to 28th March 2025  
 Location: Bengaluru, Karnataka

Every drop of water is precious. The Jalave Jeeva (Water is Life) Campaign is a powerful initiative aimed at raising awareness about water conservation and inspiring action.  
**ಬನ್ನಿ, ಈ ಅಭಿಯಾನದಲ್ಲಿ ಭಾಗವಹಿಸಿ | Join the Movement**  
**ಪ್ರತಿಭಾ ದಿವಿ ಸೇರಿಕೊಂಡು ನಡವಿರಿ | Pledger's Details:**

\*ನೇರು / Name: \_\_\_\_\_  
 \*ದತ್ತಾಂಶ ಸಂಖ್ಯೆ / Ph. No. \_\_\_\_\_ \*ತಾಂತ್ರಿಕ ದಿನಾಂಕ/DOB: \_\_\_\_\_  
 \*ವಿದ್ಯಾಪೀಠ / Institution/Occupation: \_\_\_\_\_  
 \*ದಿನಾಂಕ/Date: \_\_\_\_\_ \*ಸ್ಥಳ/Place: \_\_\_\_\_ \*ಸಹಿ/Signature: \_\_\_\_\_

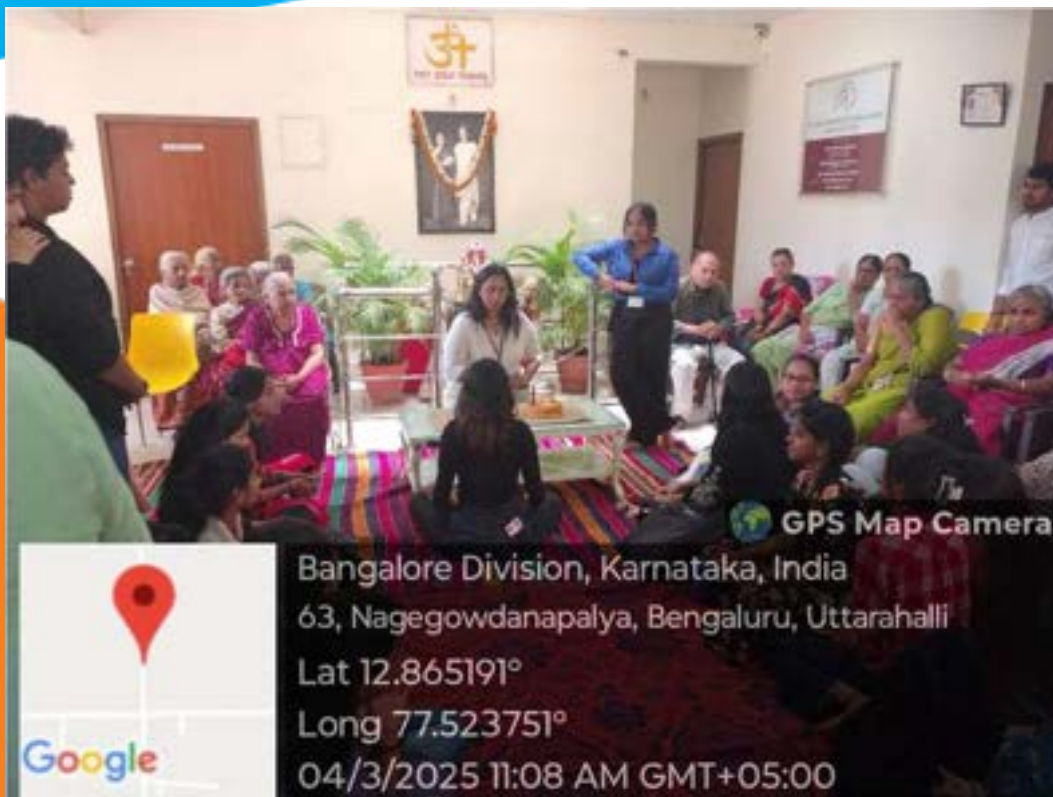
**Take the Water Saver Pledge**

- I solemnly pledge to be a Water saver and commit to save water.
- I pledge to save water by using less water while brushing, taking baths, and doing dishes.
- I pledge to use less water while washing clothes.
- I pledge to harvest rainwater and help in recharging groundwater.
- I pledge to recycle water and use it for gardening and washing vehicle purposes.
- I pledge to protect water bodies and ensure their preservation for future generations.
- I pledge to spread awareness about water saving within my family and community.
- I uphold this commitment with dedication and responsibility for a sustainable future.



## “Outreach Activity at AAShraya Seva Trust”

On March 4, 2025, third-semester students from the Department of CSE (AI&ML), Dayananda Sagar University (DSU), participated in an Outreach Activity at AAShraya Seva Trust, an old age home. The visit aimed to bring joy to the elderly and instill social responsibility in students. The students gathered at SOE Block A, DSU, at 9:20 AM, where the Chairperson extended her best wishes. Under the guidance of Dr. Shreyas Rajendra Hole, they departed at 10:00 AM and reached the old age home by 11:00 AM. The event, coordinated by student leader Shiksha, began with introductions. Students engaged the elderly with interactive activities, including Dumb Charades, Antakshari, and dance performances. The residents enthusiastically participated, creating a lively atmosphere. The celebration continued with cake-cutting, serving snacks, and heartfelt conversations. Many students were emotionally moved by the residents' stories.





## “Women’s day celebration” - AIML

On March 8th, 2025, the Department of CSE (AI & ML) at Dayananda Sagar University celebrated International Women's Day. The event featured an inspiring speech by Chairperson Dr. Jayavrinda Vrindavanm, highlighting the significance of women's contributions in various fields. Faculty members also shared their perspectives, emphasizing empowerment, inclusivity, and gender equality. The celebration recognized the achievements of women in technology and academia, fostering a spirit of encouragement and support among faculty.





## “Women’s Day Celebration” - CST

The Department of Computer Science and Engineering (CST) at Dayananda Sagar University celebrated International Women’s Day 2025 with enthusiasm and grace. The event honored the achievements and contributions of women in technology and education. Faculty, students, and staff came together to participate in a series of inspiring activities. Students showcased their talents through cultural performances and presentations. The event concluded with a heartfelt felicitation ceremony recognizing outstanding women in the department. It was a memorable day filled with inspiration, learning, and appreciation. The celebration reinforced the commitment to fostering an inclusive and supportive environment at DSU. The event was thoughtfully organized by Prof. Chithambarathanu and Dr. Nivetha NRP, showcasing the strength and achievements of women in technology and academia.





## “Women’s Day 2025 Celebration” - CSE

The Women's Day 2025 celebration in the CSE department was a joyful and memorable event, dedicated to honouring the contributions and achievements of women. A special highlight of the celebration was the thoughtful gift exchange of customized keychains, chai mud cups, and Buddha statues for all lady faculty members and staff, making the celebration even more meaningful. The event left everyone with cherished memories and a renewed sense of appreciation. The celebration aimed to honor womanhood, foster unity, and appreciate the contributions of women in academia. Adding a touch of elegance and solidarity, all women faculty members donned beautiful shades of purple, symbolizing dignity, resilience, and empowerment. As a heartfelt gesture, they exchanged gifts as tokens of love and appreciation, making the day even more special. The event was filled with warmth, laughter, and a spirit of togetherness, strengthening the bond among colleagues. A special note of gratitude to our Dean, Dr. Udaya Kumar Reddy, and Department Chairperson, Dr. Girisha G.S., whose encouragement and support played a pivotal role in the success of the celebration.





# SCHOOL OF ENGINEERING



## INDUSTRIAL VISIT

## Industrial visit to “Vaidyuthi Mobility”

The Department of CSE (AI & ML) at Dayananda Sagar University has organized an industrial visit to Vaidyuthi Mobility (VM) on March 6 and 7, 2025, for VI semester students. This visit aims to provide firsthand exposure to cutting-edge advancements in electric vehicle (EV) technology and AI integration in the automotive sector. Approximately 60 students will participate each day, with transportation arranged via university buses. The visit will allow students to observe innovative EV technologies such as dual motor drive trains, air suspension, and torque-on-demand. VM’s unique “Zero Welding, Zero Painting, Zero Wiring, Zero Wastage, and Zero Manpower” approach will highlight sustainable manufacturing practices. The event features a special session by Mr. Hari Vasudevan, Co-Founder & CTO of Vaidyuthi Mobility, who will discuss AI applications in electric mobility and future industry trends.

This initiative benefits students by bridging theoretical learning with real-world applications, while faculty gain valuable industry insights to enhance teaching. The visit strengthens university-industry collaboration, fostering research opportunities and innovation. By witnessing the latest AI-driven advancements in EVs, students will be inspired to contribute to the future of sustainable transportation and intelligent mobility.





## INDUSTRIAL VISIT TO “ISRO SDSC SRIHARIKOTA”

The Students from II- and III-year pursuing Aerospace Engineering at Dayananda Sagar University had an opportunity to visit ISRO’s Satish Dhawan Space Centre (SHAR) on 28/2/2025. This visit was an industrial tour organized to give students firsthand exposure to India’s space research and rocket launch facilities. It was an opportunity to connect our academic knowledge with real-world applications in aerospace technology, the students witnessed Launchpad 1 and Launchpad 2, where ISRO carries out its rocket launches, and also visited the Mission Control Centre (MCC), where space missions are planned and executed. Dr Prasathakumar HG, Dr Srinath R, and MR Harish KL accompanied the students for this visit.



## Industrial Visit to “Nandini Milk Dairy (BAMUL), Bengaluru”

As a part of the ISHRAE Club initiative under the Department of Mechanical Engineering, Dayananda Sagar University, an industrial visit was organized for the 4th-semester students to Nandini Milk Dairy (BAMUL), Bengaluru. This visit aimed to provide students with practical exposure to industrial processes, automation systems, and mechanical applications in the dairy industry. The visit served as a bridge between classroom learning and real-world industrial experience, giving students insight into thermal systems, mechanical components, and processing techniques used in the food and beverage industries. The students were accompanied by Prof. Abhilash, Prof. Abhijith N, and Mr. Shivasagar, who played a key role in coordinating and supervising the visit.



## Industrial Visit To “GTTC”

The Department of Artificial Intelligence and Robotics organized an industrial visit to the Government Tool Room and Training Centre (GTTC), Bangalore, on March 27, 2025, for the 4th-semester students. The objective of the visit was to provide students with practical exposure to advanced industrial technologies and bridge the gap between academic concepts and real-world applications. During the visit, students gained hands-on experience in several core areas, including robotic arm control—where they learned about programming, automation, and precision handling; 3D printing technology—exploring its mechanisms, design-to-product workflow, and widespread applications in various industries; and CNC (Computer Numerical Control) machining—understanding how digital instructions are used for high-precision manufacturing. The session also featured interactive discussions with industry experts, who shared valuable insights into the latest technological advancements and career opportunities in AI and robotics. Students were highly engaged and inspired by the visit, as it helped deepen their understanding of how theoretical knowledge is implemented in the industry.



## Experiential Learning Visit to “Nokia – A Transformative Industry Exposure for DSU Students”

The 4th and 6th-semester students of Dayananda Sagar University (DSU) had an enriching Experiential Learning Visit to Nokia Bangalore on March 18, 2025. The visit aimed to bridge the gap between theoretical knowledge and real-world industry applications in telecommunications, 5G technology, and network security.

Students participated in interactive sessions, lab demonstrations, and hands-on activities led by industry experts. The visit provided valuable industry exposure, helping students understand emerging telecom technologies and their applications. The engaging discussions and practical insights made this visit a memorable and career-enhancing experience. The students were accompanied by the NBUC SPOC Dr. Sivananda Lahari Reddy, Associate Professor in the CSE department, and Prof. Santhosh M, Assistant Professor in the CSE department. DSU remains committed to fostering experiential learning initiatives to prepare students for cutting-edge careers in technology and innovation.





# SCHOOL OF ENGINEERING



## FACULTY ACHIEVEMENTS



**Dr. B. V. N. Ramakumar**  
**Professor**  
**Department of AE**

- Dr. B. V. N. Ramakumar, Professor in the Department of Aerospace Engineering, participated in a brainstorming workshop on futuristic technologies in aero engines held on March 11th at DIA-CoE, IIT Bombay.





**Dr Prashanthakumar HG**  
**Assistant Professor**  
**Department of AE**

- Dr Prashanthakumar HG published a Q1 paper titled “Self-Lubricative Performance of Laser processed Graphene Structures for Space Applications via Digital Twin Approach in Results in Engineering Journal with impact factor:6.





**Dr Suryanarayana GK**  
**Professor**  
**Department of AE**

- Dr Suryanarayana GK published a book chapter titled “Exploring Dynamic Mode Decomposition Technique for Analyses of Transonic Shock Oscillations on a Typical Launch Vehicle Model” in Proceedings of Fluid Mechanics and Fluid Power (FMFP)2023, Vol. 1, Lecture Notes in Mechanical Engineering.

### **Exploring Dynamic Mode Decomposition Technique for Analyses of Transonic Shock Oscillations on a Typical Launch Vehicle Model**



**D. B. Singh, Gireesh Yanamashetti, G. K. Suryanarayana, and G. Jagadeesh**

**Abstract** Extensive experimental investigations of transonic flow development over the payload region of a generic launch vehicle model have been carried out. The effect of changing the semi-nose cone angle in the range of 15° to 25° is one of the problems studied. For angles of 20°–25° and certain combinations of Mach number and angle of attack, a large amplification of pressure fluctuations was observed. This paper reports analyses of pressure sensor data and high-speed shadowgraph images based on the dynamic mode decomposition (DMD) technique to better understand the phenomena. This technique holds significance in flow diagnostics and the prospective estimation tools of complex nonlinear flow phenomena.

**Keywords** Unsteady pressure fluctuations ·  $\lambda$  shock system · Launch vehicle buffet · Shock oscillation · DMD

#### **Nomenclature**

$P_0$	Free-stream total pressure
$P$	Local static pressure
$P_\infty$	Free-stream static pressure
$C_p$	Time-averaged pressure coefficient, $\frac{P - P_\infty}{q}$
$M$	Free-stream Mach number
$\delta_1$	Nose angle (deg)



**Prof Kartik S Tandel**  
**Assistant Professor**  
**Department of AE**

- Prof Kartik S Tandel participated in the 3rd Conference and Exhibition on Intelligence Augmented Inspections: Prospects and Aspects of AI in NDE", which I attended on March 3, 2025, at Taj Yeshwantpur, Bengaluru. The course provided valuable insights into AI-driven advancements in Non-destructive Evaluation (NDE), including NDE 4.0, Generative AI applications, and ethical considerations.





**Dr Srinath R**  
Assistant Professor  
Department of AE



**Prof Kartik S Tandel**  
Assistant Professor  
Department of AE

- Dr. Srinath R. and Prof. Kartik S. Tandel published a paper titled “Optimizing pressure recovery in mixed compression inlets for high-speed ramjet applications” in the Physics of Fluids Journal.

The screenshot shows the article page for "Optimizing pressure recovery in mixed compression inlets for high-speed ramjet applications" in the journal Physics of Fluids. The page includes the journal title, volume and issue information (Volume 37, Issue 3, March 2025), the article title, authors (Srinath R, Vigneeswaran C M, Inamul Hasan, Kartik S. Tandel, Mohamed Hussein), a "Check for updates" button, and a "Share" button.



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

- Dr. Dilip Kumar Jang Bahadur Saini has been honored with the Certificate of Excellence in Reviewing by the Journal of Experimental Agriculture International in recognition of an outstanding contribution to the quality of the journal on 07.03.2025.



- Dr. Dilip Kumar Jang Bahadur Saini has contributed as a Session Chair at the International Conference RBUCON.Computing'25: Future Computing Technologies for Societal Development organized by Ramdeobaba University, Nagpur, in association with the University of Arad, Romania from February 20-22, 2025.





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

- Dr. Mubeen Ahmed Khan has successfully presented a research paper titled: "A Comparative Analysis of Machine Learning Algorithms for Dyslexia Detection" at the International Conference RBUCON.Computing'25: Future Computing Technologies for Societal Development, organized by Ramdeobaba University, Nagpur, in association with the University of Arad, Romania from February 20-22, 2025.





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



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

- Dr. Durbadal Chattaraj and Prof. Sharanabasappa Tadkal presented a paper titled "A Context for Human Behavior Recognition Using Facial Expression," at the IEEE International Conference on Computational, Communication and Information Technology (ICCCIT-2025), held on February 7-8, 2025, at IPS Academy, Institute of Engineering and Science, Indore.





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



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



**Prof. K. Deepthika**  
Assistant Professor  
Department of CSE(CY)



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

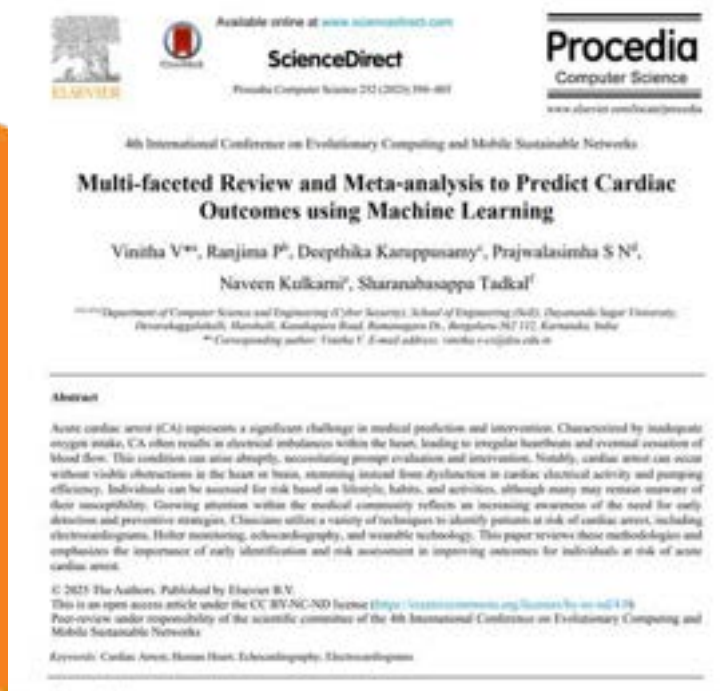


**Prof. Naveen Kulkarni**  
Assistant Professor  
Department of CSE(CY)



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

- Prof.V. Vinitha, Prof.P. Ranjima, Prof. K. Deepthika, Dr. S.N. Prajwalasimha, Prof. Naveen Kulkarni, Prof. Sharanabasappa Tadkal have published a conference paper titled "Multi-faceted Review and Meta-analysis to Predict Cardiac Outcomes using Machine Learning".





**Dr. V. S. Devi Priya**  
Assistant Professor  
Department of CSE(CY)

- Dr. V. S. Devi Priya attended IEEE SA InDIITA Forum 2025 held on 19<sup>th</sup> and 20<sup>th</sup> Feb 2025 at C-DAC Bangalore. Certificate No: C-DACB/2025/IEEE-SA/04InDIITA-45





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

- Dr. D. Sumathi has attended the IEEE SA InDIITA Forum 2025 held on 19<sup>th</sup> and 20<sup>th</sup> Feb 2025 at C-DAC Bangalore. Certificate No: C-DACB/2025/IEEE-SA/04InDIITA-31





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

- Dr. Suresh Arumugam has successfully participated in a One Week Faculty Development Program on Applications of Business Analytics from 24th Feb to 1st March 2025, Organized by the Department of Business Management, Vaagdevi College of Engineering in association with Pantech Learning.





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

- Prof. Sindhu A has successfully participated in a One Week Faculty Development Program on Applications of Business Analytics from 24<sup>th</sup> Feb to 1<sup>st</sup> March 2025, Organized by the Department of Business Management, Vaagdevi College of Engineering in association with Pantech Learning.





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

- Prof. Manjula M has presented Paper ID 45 titled: Integrating IoT and Sensors for Comprehensive Road Safety: A Systematic Approach to Accident Prevention at the 1st International conference on Advances and Applications in artificial intelligence (ICAAAI 2025) Organized by the Department of CSE, Shri Shankaracharya Institute of Professional Management & Technology, Raipur during 27-28 February 2025





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

- Dr. U. Pavan Kumar attended the Mathworks Webinar in MATLAB without Borders: Connecting your Projects with Python and other Open-Source Tools by MathWorks on 27th February 2025.



This is to certify that Dr U Pavan Kumar has attended the following MathWorks webinar:

**Event:** MATLAB Without Borders: Connecting your Projects with Python and other Open-Source Tools

**Date:** 27 February 2025

**Webinar Run-Time:** 1 Hour

Sincerely,

*The MathWorks Team*

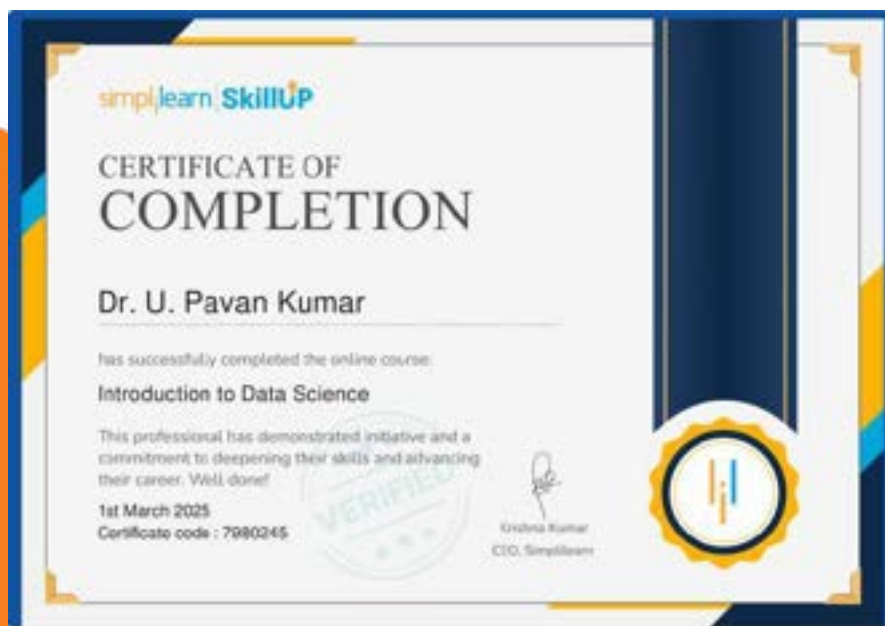
MathWorks Webinars



- Dr. U. Pavan Kumar has participated and presented a research paper title: Privacy-preserving Federated Learning for Equipment Failure Detection in Smart Manufacturing at 7th International Conference on Intelligent Sustainable Systems - ICISS 2025 Organized by SCAD College of Engineering and Technology (SCADCET) during 12-14th, March 2025, Tirunelveli, India



- Dr. U. Pavan Kumar has successfully completed the online course on Introduction to Data Science offered by Simplilearn| Skillup on 1st March 2025.





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

- Prof. Godhandaraman T has participated in the Faculty Development Program on Cyber Security organized by the Department of MBA & Research Centre, Sapthagiri NPS University, Bangalore in collaboration with ExcelR Edtech Pvt. Ltd. From 14<sup>th</sup> Feb to 20<sup>th</sup> Feb 2025.



- Prof. Godhandaraman T has published a book title on “Fundamentals of Data Science” with ISBN: 978-93-5762-445-9 Alpha International Publication March 2025.





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

- Prof. Shivamma D participated in the Hands-on Workshop on Predictive Power-Matlab for Data Science held on 5<sup>th</sup> March 2025 organized by CoreEL Technologies India Pvt Ltd





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

- Prof. Monish L participated in the Hands-on Workshop on Predictive Power-Matlab for Data Science held on 5<sup>th</sup> March 2025 organized by CoreEL Technologies India Pvt Ltd.





**Dr. Rajeev Kumar Gupta**  
Assistant Professor  
Department of ME

- Dr. Rajeev Kumar Gupta, Assistant Professor, Department of Mechanical Engineering, Dayananda Sagar University, Bengaluru, has successfully completed the NPTEL Online Certification Course in Programming in Python with an outstanding performance of 92% score, ranking in the Top 1% among 37164 candidates.



The certificate is awarded to **Rajeev Kumar Gupta** for successfully completing the 4 credit course **Programming in Python** with a consolidated score of 92% from the evaluation based on continuous online assessments and the proctored examination held in month of December 2024.

This course was offered by **Dr. Ritwion Rehman** of Dibrugarh University

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	29	70	63	100	92

Issued On: 31/12/2024

To validate and check scores: <https://swayam.gov.in>



**Dr. P. M. G. Bashir Asdaque**  
**Assistant Professor**  
**Department of ME**

- Dr. P. M. G. Bashir Asdaque, Assistant Professor, Department of Mechanical Engineering, Dayananda Sagar University, Bengaluru, has successfully completed the NPTEL Online Certification Course in Programming in Python with an outstanding performance of 96% score, ranking in the Top 1% among 37164 candidates.



The certificate is awarded to **P M G Bashir Asdaque** for successfully completing the 4 credit course **Programming in Python** with a consolidated score of 96% from the evaluation based on continuous online assessments and the proctored examination held in month of December 2024.

This course was offered by Dr. Rizwan Rehman of Dibrugarh University

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	30	70	66	100	96

Issued On: 31/12/2025

To validate and check scores: <https://www.nptel.gov.in>



**Dr. Santhosh Kumar J**  
**Associate Professor**  
**Department of CST**

- Dr. Santhosh Kumar J, Associate Professor visited the College of Physiotherapy, Dayananda Sagar University as a resource person to deliver a topic “Analytics Using Machine Learning in the Medical Domain” on March 05, 2025.



- Dr. Santhosh Kumar J, Associate Professor, enthusiastically participated in the Walkathon event. The event aimed to promote a healthy lifestyle and spread awareness about community well-being.



- Dr. Santosh Kumar has participated in a six-day online Faculty Development Programme (FDP) on “Unlocking Innovation: Research Funding, Proposal Writing and IPR Strategies for Startups” organized by the Department of Electrical and Electronics Engineering, Joginpally B R Engineering College, Hyderabad held from 03<sup>rd</sup> -08<sup>th</sup> March 2025.





**Prof. Junaid Mundichipparakkal**  
**Assistant Professor**  
**Department of CST**

- Prof. Junaid has participated in a one-day online Faculty Training Session on “Software Engineering Using LLMs – Developing a Forecasting Solution” organized by the Department of Artificial Intelligence and Machine Learning, CRIA and School of Computer Applications conducted on 12<sup>th</sup> March 2025 at Dayananda Sagar University, Bangalore.





**Dr. Nivetha NRP**  
**Assistant Professor**  
**Department of CST**

- Dr. Nivetha NRP has participated in a one-day online Faculty Training Session on “Software Engineering Using LLMs – Developing a Forecasting Solution” organized by the Department of Artificial Intelligence and Machine Learning, CRIA and School of Computer Applications conducted on 12<sup>th</sup> March 2025 at Dayananda Sagar University, Bangalore.





**Prof. Vinayaka VM**  
**Assistant Professor**  
**Department of CST**

- Prof. Vinayaka VM has participated in a one-day online Faculty Training Session on “Software Engineering Using LLMs – Developing a Forecasting Solution” organized by the Department of Artificial Intelligence and Machine Learning, CRIA and School of Computer Applications conducted on 12<sup>th</sup> March 2025 at Dayananda Sagar University, Bangalore.





**Dr. Sivananda L Reddy**  
Associate Professor  
Department of CSE

- Dr. Sivananda L Reddy, Associate Professor, Department of CSE, has successfully published a patent with the title “IoT-Integrated Irrigation Management System for Optimized Advancing Sustainable Agriculture” on 7<sup>th</sup> March 2025 with Application No: 202541014506 A.

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202541014506 A
(18) INDIA	
(22) Date of filing of Application :20/02/2025	(43) Publication Date : 07/03/2025
<b>(54) Title of the invention : IoT-Integrated Irrigation Management System for Optimized Advancing Sustainable Agriculture</b>	
(51) International classification	:A01G0025160000, G06Q0000020000, H04L0067120000, H04W0084180000, G01N0033240000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA
(57) Abstract :	
<p>The present invention aims to develop an IoT-integrated irrigation management system designed to optimize water usage while ensuring maximum crop yield. The system comprises multiple sensor nodes deployed across the field, collecting data on soil moisture, temperature, humidity, and environmental factors. These sensor nodes communicate wirelessly with a central processing unit, which processes the data and determines the optimal irrigation schedule. The system is equipped with an intelligent control unit that automates water distribution through a network of solenoid valves and drip irrigation pipelines. Machine learning algorithms analyze historical and real-time data to predict irrigation needs, thereby reducing water wastage. Additionally, the system is accessible through a user-friendly mobile application, providing farmers with remote control and real-time alerts regarding irrigation status. Figure 01</p>	
No. of Pages : 9	No. of Claims : 6



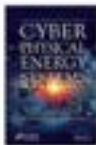
**Dr.Poongodi T**  
**Professor**  
**Department of CSE**

- Dr. T. Poongodi, Professor in the Department of CSE, published an Edited Book entitled "Cyber Physical Energy Systems" with an International Publisher - John Wiley & Sons, Scrivener Publishing, Pages 1 - 533. ISBN:9781394172528.

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 **Cyber Physical Energy Systems**

Editors: Shridha Sagar, T. Poongodi, Rajesh Kumar Dhanaraj, Sanjeev Kumar Padmanaban

First published: 20 November 2024

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| DOI: 10.1002/9781394173006

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**About this book**

This book is essential for understanding the transformative integration of cyber-physical systems in smart grids, providing valuable insights that will shape the future of sustainable energy production and distribution.

A novel modeling methodology that blends cyber and physical components is a ... Show all -

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For authors



**Dr Rajesh T M**  
**Associate Professor**  
**Department of CSE**

- Dr Rajesh T M, Associate Professor, and Prof Shankramma S Dhavalagimath, Research Scholar, Dept of CSE, have published a paper titled “Advancements in Image Deblurring and Performance Metrics Using Deep Learning Technique” in the Springer Nature Lecture Notes in Networks and Systems, Proceedings of International Conference on Recent Trends in Computing, during March 2025.

### Advancements in Image Deblurring and Performance Metrics Using Deep Learning Technique



Shankramma S. Dhavalagimath, T. M. Rajesh, and Rakesh Kumar Singh

**Abstract** In computer vision and image processing, image deblurring is a crucial phase that attempts to restore the sharpness of the image and clarity of images that have been damaged due to motion blur, defocus, or other factors. The multiple image deblurring methods are thoroughly investigated in this work, along with the performance evaluation metrics that were employed to evaluate each method's efficiency. We started by examining the most recent deblurring techniques, which include both deep learning-based and traditional algorithms. Every technique's advantages, disadvantages, and suitability are examined in different scenarios. Furthermore, we investigate the finer details of performance metrics that are frequently used to rate the quality of deblurred images. These metrics include subjective assessments from user research & objective measurements like PSNR and SSIM. This study aims to elucidate the benefits and drawbacks of current deblurring methods in diverse contexts through extensive experimentation. Moreover, we examine the applicability and consistency of performance evaluation metrics for evaluating the accuracy and perceived quality of deblurred images. By supporting researchers and professionals in identifying suitable techniques and assessment standards for their particular applications, the knowledge gained from this study improves the field of image deblurring.

**Keywords** Image deblurring · Deep learning-based image deblurring · PSNR · SSIM

S. S. Dhavalagimath (✉) · R. K. Singh  
Department of Mathematics, Dayananda Sagar University, Bangalore 562112, India  
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R. K. Singh  
e-mail: rakeshsingh-maths@dsu.edu.in

T. M. Rajesh  
Department of Computer Science and Engineering, Dayananda Sagar University,  
Bangalore 562112, India  
e-mail: rajesh-cse@dsu.edu.in

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R. P. Mahapatra et al. (eds.), *Proceedings of International Conference on Recent Trends in Computing, Lecture Notes in Networks and Systems 885*,  
[https://doi.org/10.1007/978-981-97-8836-1\\_12](https://doi.org/10.1007/978-981-97-8836-1_12)

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**Dr. Revathi V**  
**Associate Professor**  
**Department of CSE**

- Dr. Revathi V, Associate Professor, Department of CSE, has participated in the National Conclave on "Gen AI in College Curriculum" on 8th March 2025, gaining insights into AI's impact on education and future-ready curriculum changes organized by Capabl India in collaboration with the Computer Society of India (CSI).





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

- Dr. Renukadevi M.N, Assistant Professor, Department of CSE has presented a paper at the IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2025), conference with the title "AttUNet:: Enhancing Re sUNet with Attention Mechanisms for Accurate Brain Tumor Segmentation", on 8th March 2025. organized by IEEE MP Section and ABV-IIITM Gwalior, India on 6-8 March 2025.





**Dr.Gokulakrishnan S**  
**Assistant Professor**  
**Department of CSE**

- Dr Gokulakrishnan S, Assistant Professor, Department of CSE has successfully completed the online course on “AICTE Evaluated 10-Day Patent Analytics Course”, organized by Turnip Innovations and facilitated by Dr. Rahul Kapoor, from 12<sup>th</sup> to 21<sup>st</sup> March 2025.





**Prof. Sasikala N**  
**Assistant Professor**  
**Department of CSE**

- Prof. Sasikala N, Assistant Professor, Department of CSE has received a grant of ₹5,000 from the Indian National Academy of Engineering (INAE) under the 'Mentoring of Engineering Teachers by INAE Fellows/INAE Young Associates' program for the project titled 'Early Identification of Slow Learners in an Engineering Class.' The project was guided by Dr. C. P. Ravikumar, an Adjunct Professor, the Indian Institute of Information Technology, Ittigatti.

Dear Ms Sasikala N,

This has reference to application under Mentoring of Engineering Teachers by INAE Fellows/INAE Young Associates.

We are happy to inform that you have been selected for mentoring by Dr CP Rai, Kanara under the above mentioned scheme.

It is intimated that the mentoring shall be conducted in hybrid mode (physical, online or both) with mutual consent of Mentor and Mentee. There shall be no financial provision in the scheme except a project support of Rs 5000/- only shall be provided to the Mentee at the end of the Mentoring Period. The Guidelines of the scheme are enclosed for your reference.

It may please be noted that at the end of the mentoring period, you are required to submit an ink signed hard copy of report and Project Support details duly countersigned by mentor (as per format placed at Appendix II) to INAE office at the address given below as same are required for audit purposes.

Please acknowledge the receipt of this email.

BTCL,

With regards,

लेखिका: कर्नल शोभित राय (लेखिका)

L1 Col Shobhit Rai (Rtd)

उप-कार्यकारी निदेशक

Deputy Executive Director

भारतीय राष्ट्रीय अभियांत्रिकी अकादमी

Indian National Academy of Engineering (INAE)

महानगर, १<sup>म</sup> मंजूर-11: Ground Floor, Block-II

टेकनोलॉजी भवन, नए मेहरौली रोड

Technology Bhawan, New Mehrauli Road,

नई दिल्ली New Delhi-110 008

दूरभाष/Phone: 011-2652475

वेबसाइट/Website: [www.inae.in](http://www.inae.in)

- Prof. Sasikala N, Assistant Professor, Department of CSE has successfully served as a reviewer for 2 manuscripts in the Springer Journal Discover Artificial Intelligence on 19<sup>th</sup> and 24<sup>th</sup> March 2025.





**Dr. George Fernandez I**  
Associate Professor  
Department of CSE



**Dr. Revathi V**  
Associate professors  
Department of CSE

- Dr. George Fernandez and Dr. Revathi V, Associate professors, extended their service as a session chair for the technical presentation session and contribution towards the successful organization of IEEE sponsored First International Conference on Frontier Technologies and Solutions (ICFTS 2025) held at St. Joseph's College of Engineering, Chennai, Tamil Nadu during 27<sup>th</sup> and 28<sup>th</sup> March 2025.





**Dr. Hari Haran**  
Assistant Professor  
Department of Maths

- Dr. Hari Haran published the research article entitled “Hopf Bifurcation and Optimal Control Studies for Avian-Influenza Virus with Multi-Delay Model” in the journal ‘Advances in Continuous and Discrete Models: Theory and Modern Applications’ by Springer Nature Open Publications which is Q2 indexed journal possessing ISSN:2731-4235.

The screenshot shows the SpringerOpen website interface. At the top, there is a navigation bar with the SpringerOpen logo, a search bar, and links for 'Get published', 'Explore Journals', 'Books', 'About', and 'Login'. Below this, the journal title 'Advances in Continuous and Discrete Models' and subtitle 'Theory and Modern Applications' are displayed. A 'Submit manuscript' button is visible. The main content area features the article title 'Hopf bifurcation and optimal control studies for avian-influenza virus with multi-delay model', authors 'Debet Dorai, S. Harikrishnan, Marimuthu Jeyaram, L. Shanmuganesh N. Lalin, Bing', and publication details 'Advances in Continuous and Discrete Models 2025, Article number: 77 (2025)'. A 'Download PDF' button is present. On the right, a 'Sections' menu lists: Abstract, Introduction, Model formulation, Stability analysis, Sensitivity analysis, Delay model, optimal control, and Numerical simulation. The abstract text is partially visible at the bottom.



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

- Dr. Mude Nagarjuna Naik, Assistant Professor, Dept. of CSE (AIML) has received the certificate of appreciation as Technical Reviewer at the IEEE International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA-2024), 20-21, December 2024, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India.





- Dr. Shreyas Rajendra Hole & Dr. Jayavrinda Vrindavanam, Assistant Professor & Professor, Dept. of CSE (AIML), have successfully presented a paper titled “Hybrid PCA-Based Machine Learning Models for Predictive Analytics in Urban Health Monitoring Systems.” in the 2025 IEEE 1st International Conference on (SSDEE-2025) held at Indian Institute of Technology (Indian School of Mines), Dhanbad during 28th February to 2nd March 2025.





**Dr. Vegi Fernando A**  
**Associate Professor**  
**Department of CSE(AIML)**

- Dr. Vegi Fernando A, Associate Professor, Dept. of CSE (AIML), has successfully presented a paper entitled “RhinoGuardNet: An Integrated Deep Learning System for Monitoring, Movement Prediction, and Threat Detection in Javan Rhino Conservation” at the 2nd International Conference on Machine Learning and Autonomous Systems (ICMLAS 2025) organized by Stamford International University Bangkok, Thailand on 10-12th March 2025.





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



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

- Dr. Shreyas Rajendra Hole & Dr. Mude Nagarjuna Naik, Assistant Professors, Dept. of CSE (AIML), has successfully presented a paper titled “Hybrid Approach of TabNet and Transformer-XGBoost for Predicting Traffic Flow in Smart Cities.” in the 2025 IEEE 1st International Conference on (SSDEE-2025) held at Indian Institute of Technology (Indian School of Mines), Dhanbad during 28th February to 2nd March 2025.





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



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

- Dr. Shreyas Rajendra Hole & Sriramkumar R, Assistant Professors, Dept. of CSE (AIML), has successfully presented a paper titled “A Design of Hybrid Model and Bayesian Neural Networks for Smart Grid Stability Prediction.” in the 2025 IEEE 1st International Conference on (SSDEE-2025) held at Indian Institute of Technology (Indian School of Mines), Dhanbad during 28th February to 2nd March 2025.





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

- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AIML), published a conference paper titled, “Design of an Efficient Model for DC–DC Converter Topologies and Grid Integration in Electric Vehicles”. In: Prajapati, A.K., Tripathy, M., Singh, A.K., Sood, V.K., Malik, O.P. (eds) Control Applications in Modern Power Systems. EPREC 2024. Lecture Notes in Electrical Engineering, vol 1304. Springer, Singapore.

Home > Control Applications in Modern Power Systems > Conference paper

## Design of an Efficient Model for DC–DC Converter Topologies and Grid Integration in Electric Vehicles

Conference paper | First Online: 25 March 2023  
pp 301–312 | [Cite this conference paper](#)



**Control Applications in Modern Power Systems**  
(EPREC 2024)

Agam Das Goswami & Shreyas Rajendra Hole

Part of the book series: [Lecture Notes in Electrical Engineering \(LNEE, volume 1304\)](#)

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- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AIML), Presented the paper titled Machine Learning and Artificial Intelligence for Predictive Modelling in Antimicrobial Resistance Datasets, Challenges, and Future Directions in the International Conference on Smart Systems for Applications in Electrical Sciences - 2025 held at SIT, Tumakuru on 21st and 22nd March 2025.





**Prof. Ankita Thakkar**  
**Assistant Professor**  
**Department of CSE(AIML)**

- Prof. Ankita Thakkar, Assistant Professors, Dept. of CSE (AIML), has successfully completed the course Importing Data Fundamentals, learn how to import data into Neo4j.



- Prof. Ankita Thakkar, Assistant Professor, Dept. of CSE (AIML), has successfully completed the course, Cypher Fundamentals, Learn Cypher in 1 hour.



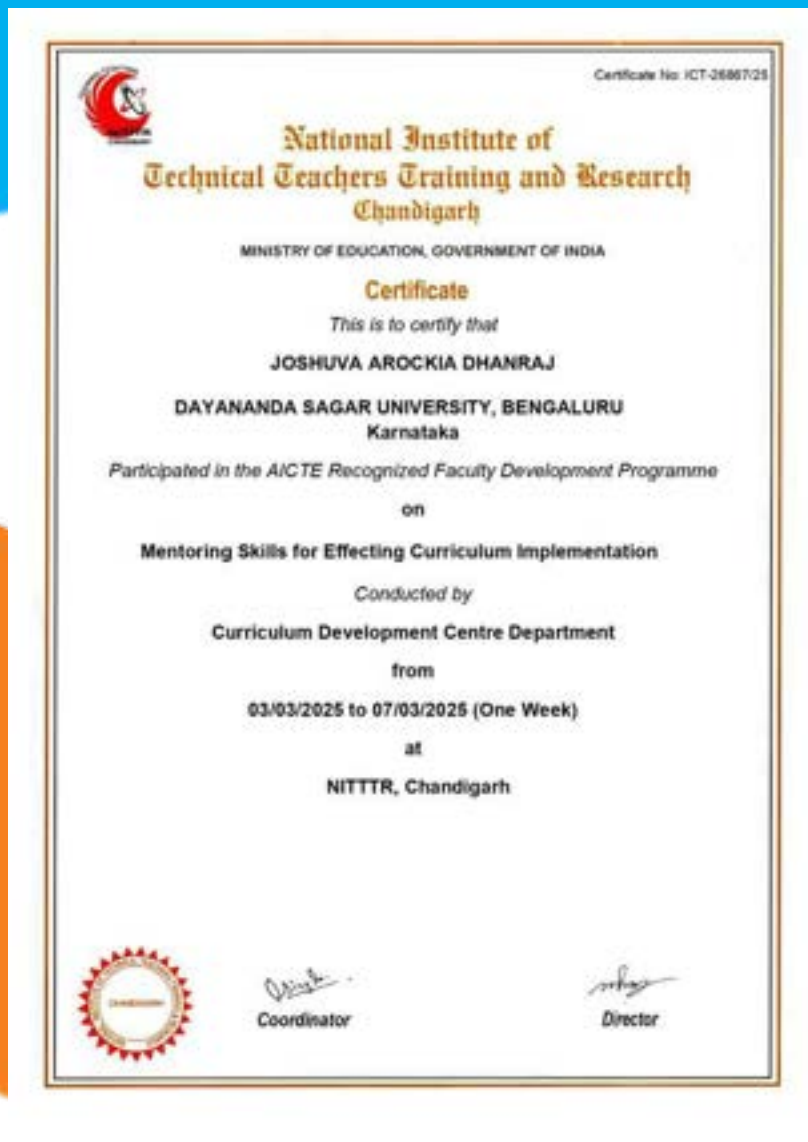
- Prof. Ankita Thakkar, Assistant Professor, Dept. of CSE (AIML), has successfully completed the course Neo4J Fundamentals, learn about Graph databases and get started with Neo4j.



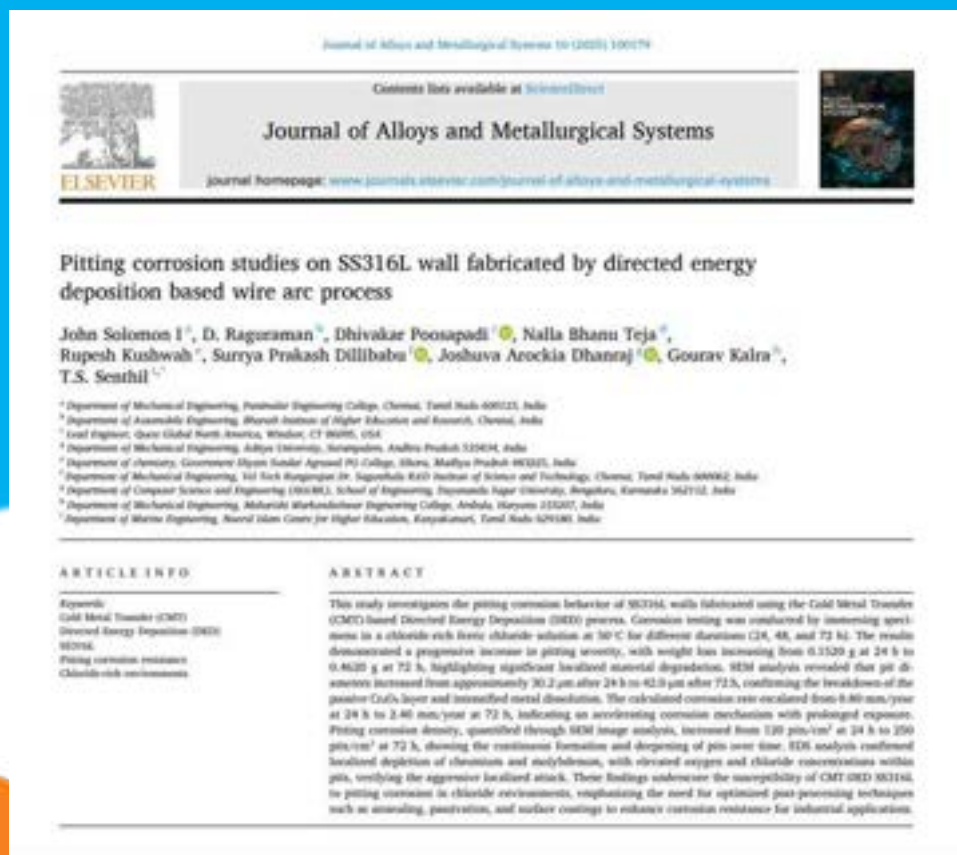


**Dr. Joshuva Arockia Dhanraj**  
**Associate Professor**  
**Department of CSE(AIML)**

- Dr. Joshuva Arockia Dhanraj, Associate professor, Dept. of CSE (AIML), has successfully Participated in the AICTE Recognized Faculty Development Programme on Mentoring Skills for Effecting Curriculum Implementation I Conducted by the Curriculum Development Centre Department from 03/03/2025 to 07/03/2025 (One Week) at NITTTR, Chandigarh.



- Dr. Joshuva Arockia Dhanraj, Associate professor, Dept. of CSE (AIML), has published a paper titled “Pitting corrosion studies on SS316L wall fabricated by directed energy deposition-based wire arc process” in the Journal of Alloys and Metallurgical Systems.





**Dr. Bahubali Shiragapur**  
**Professor**  
**Department of CSE(AIML)**

- Dr. Bahubali Shiragapur Professor, Dept. of CSE (AIML) has successfully completed the Faculty Development Programme on "Emerging Trends in FPGA-Accelerated Machine Learning in VLSI" organized by Electronics and ICT Academy IIT Roorkee in association with Dayananda Sagar University, Bangalore held from 10th Feb 2025 - 14th Feb 2025.



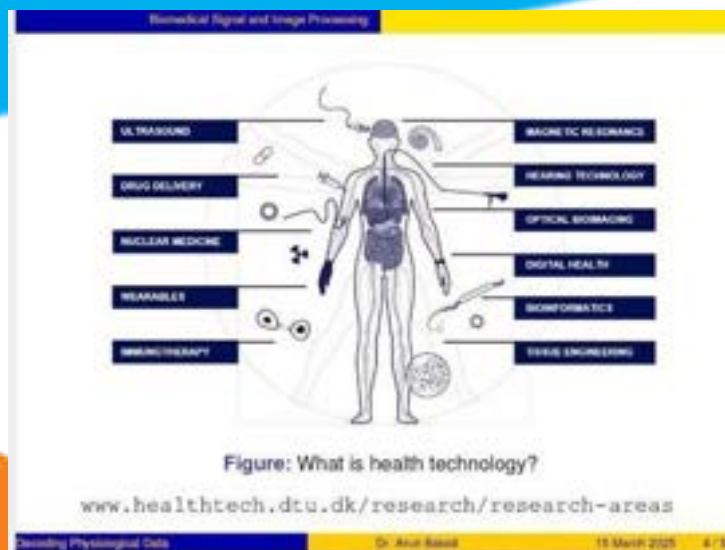


**Dr. Arun Balodi**  
**Professor & Chairperson**  
**Department of ECE**

- Dr. Arun Balodi, Chairman and Professor, the Department of Electronics and Communication Engineering, had the honor of inaugurating the IEEE Microwave Theory and Technology Society (MTT-S) Student Chapter at Cambridge Institute of Technology, Bengaluru.



- Dr. Arun Balodi, Chairman and Professor in the Department of Electronics and Communication Engineering has delivered an insightful talk on "Biomedical Signal Processing: Decoding Physiological Data" at IEEE St. Joseph's College of Engineering Student Branch (SJCE SB), Chennai, on March 15, 2025.



- Dr. Arun Balodi, Chairman and Professor, the Department of Electronics and Communication Engineering, has successfully published a research paper titled "Fine-tuned deep learning models for early detection and classification of kidney conditions in CT imaging" in Nature Scientific Reports (SCIE Journal, Impact Factor 3.8) on March 28, 2025.

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Published: 28 March 2025

## Fine-tuned deep learning models for early detection and classification of kidney conditions in CT imaging

[Amit Pimpalkar](#), [Dilip Kumar Jang Bahadur Saini](#), [Nilesh Shelke](#), [Arun Balodi](#), [Gauri Rapate](#) & [Manoj Tolani](#)  — Show fewer authors

*Scientific Reports* **15**, Article number: 10741 (2025) | [Cite this article](#)



**Dr. Supraja Eduru**  
Assistant Professor  
Department of ECE

- Dr. Supraja Eduru, Assistant Professor in the Department of Electronics and Communication Engineering has successfully contributed to the transcription editing of multiple NPTEL courses using advanced Machine Learning tools.
1. "Introduction to Soft Computing" (IIT Kharagpur)
  2. "Engineering Fracture Mechanics" (IIT Madras)
  3. "Sociology of Science" (IIT Roorkee)



- Dr. Supraja Eduru, Assistant Professor has been awarded Reviewer Certificates by Wiley for her expert reviews in the journals: International Journal of Communication Systems – for reviewing two manuscripts in 2024



- Dr. Supraja Eduru, Assistant Professor has been awarded Reviewer Certificates by Wiley for her expert reviews in the journal: International Journal of Antennas and Propagation – for reviewing one manuscript in 2024





**Prof. Puneeth S**  
**Assistant Professor**  
**Department of ECE**

- Prof. Puneeth S, Assistant Professor Department of Electronics and Communication Engineering, has co-authored a research paper titled "Integrating Beetle Swarm Optimization into Cross-Layer Routing for Improved QoS in Cluster-Based WSNs".

Conferences > 2014 IEEE 4th International C...

## Integrating Beetle Swarm Optimization into Cross-Layer Routing for Improved QoS In Cluster-Based Wsns

Publisher: IEEE [Cite This](#) [PDF](#)

Arifa Soni ; Balendra Sonare ; [S. Puneeth](#) ; Anjali Yadav ; J Sathiamoorthy ; Aman Raj Taseeri [All Authors](#)

Department of Electronics and Communication Engineering, School of Engineering, Jaypee Group of Institutions, Greater Noida, India

**Abstract**

An overview of cross-layer architecture and quality-of-service optimizing for router is provided, with a focus on improving the efficiency of cluster oriented wireless sensors via the integration of the Beetle Swarm Optimization (BSO) method with the enhanced Dynamic Source Routing (DSR) approach. Cross Layer Design (CLD) is the name of the suggested approach; in this, processing restrictions related to energy are taken into primary consideration. While the IEEE 802.11 (Wi-Fi) standard was evaluated as a gateway in Chapter 3, it does have a few drawbacks, such as the fact that it can only handle small networks and that every router has only a certain amount of battery capacity. Thus, for the sake of cross-layer layout, this component takes into account the ZigBee/IEEE 802.15.4 (WPAN) wirelessly personalized area network design. A number of settings are adjusted to enhance the wireless sensor network's efficiency depending on the ZigBee structure of layers. Power from batteries is the main focus of the physical component. The media access control (MAC) layer handles packet sequencing and bandwidth that is available. Both the transmission and network layers are responsible for controlling overcrowding. The networking layer handles routable technologies. This chapter concludes, in its experimental part, that the suggested strategy improves the

**Document Sections**

- I. INTRODUCTION
- II. RELATED WORKS
- III. PROPOSED METHODOLOGY
- IV. RESULT
- V. CONCLUSION



**Dr. Vinu R**  
**Associate Professor**  
**Department of ECE**

- Dr. Vinu R., Associate Professor in the Department of Electronics and Communication Engineering, delivered a technical talk on “AI for Wireless Sensor Networks - Challenges and Future Directions” on 19th February 2025. This session was part of the Five-Day Faculty Development Program on “Modern Applications in Electronics & Communication Engineering,” organized by the ECE Department of Gonna Institute of Information Technology and Sciences, Anakapalli, Visakhapatnam, from 17th to 21st February 2025.





# SCHOOL OF ENGINEERING



## STUDENT ACHIEVEMENTS

- Mr. Mithesh Chandrashekar (ENG21AM0072), Mr. Pradeep K (ENG21AM0086), Mr. Rohan John Varghese (ENG21AM0097) and Ms. Ruchitha Gowda S (ENG21AM0100) of 8th Semester AIML, 2021-2025 batch has been selected for KSCST funding of Rs. 5000 under the guidance of Dr. Vinutha N, CSE (AI & ML).



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**48<sup>th</sup> series of Student Project Programme (SPP): 2024-25**  
 List of Student Project Proposals Approved for Sponsorship

AT DAYANANDA SAGAR UNIVERSITY, KAMMANGARA

S. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUARDIAN	NAME OF THE STUDENTS	AMOUNT SANCTIONED (Rs.)
001	MS_24_3214	OPTIMIZED DRIP SYSTEM IMPLEMENTATION AND PREDICTIVE CULTURE MANAGEMENT FOR PROACTIVE AGRICULTURAL SOLUTIONS	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. VINUTHA N	MR. PRADEEP K MS. MITHESH CHANDRASHEKAR MR. ROHAN JOHN VARGHESE MS. RUCHITHA GOWDA S	5,000.00

- The Department of CST proudly congratulates our student team—Mr. Allan (ENG21CT0002), Ms. Swathi (ENG21CT0043), Mr. Swaroop (ENG21CT0021), Ms. Saara (ENG21CT0034) (8th semester), Ms. Pranati (ENG22CT0016), Mr. Ripal (ENG22CT0042), Ms. Ashritha (ENG22CT0003) (6th semester), and Ms. Yashaswini (4th semester)—guided by Dr. Santosh Kumar J and Dr. Sudha D, for winning Karnataka Elevate 2024-25 with the support of Dr. Shahina Parveen (Chairperson, CST), Dr. Udaya Kumar Reddy (Dean), SoE, DSU.





- Mr. Ankit Singh (ENG21CT0004) and Prof. Ramandeep Kaur, Assistant Professor published a research article titled “Enhancing Trust and Performance in AI-Driven Healthcare: A Comprehensive Review of Explainable AI Features” in Fourteenth International Conference on Control System and Power Electronics – CSPE 2025 in Feb 27-28, 2025.



- Mr. C S S Krishna Kaushik (ENG21AM0020), 8th-semester student, dept. of CES(AI&ML), has presented a paper titled “Hybrid Spiking Neural Network-Attention Model for Multi-Class Heart Disease Detection” at the 6th International Conference on Recent Advances in Information Technology (RAIT) 2025, held at the Indian Institute of Technology (Indian School of Mines), Dhanbad, India, from March 6 to 8, 2025.



- Ms. Sayli Pankaj Bande (ENG21AM0112), 8th-semester student, Dept. of CES(AI&ML), has presented a paper titled “Augmenting Medical Diagnostics with AI: A Dual Approach Using RAG-Based Chatbots and Nano GPT Models” at the 6th International Conference on Recent Advances in Information Technology (RAIT) 2025, held at the Indian Institute of Technology (Indian School of Mines), Dhanbad, India, from March 6th to 8th, 2025.



- Mr. Yudhajit Jana (ENG22AM3021), 8<sup>th</sup> semester student, Dept. of CES(AI&ML), has presented a paper titled Attention-Enhanced Transfer Learning for Emphysema Classification Using CBAM-Augmented ResNet-50 at the 6th International Conference on Recent Advances in Information Technology (RAIT) 2025, held at the Indian Institute of Technology (Indian School of Mines), Dhanbad, India, from March 6th to 8th, 2025.



- Mr. Prajwal B(ENG22AM0038), Mr. Raghu M (ENG23AM1003) and Mr. Shashank N (ENG23AM1006) of 6th-semester student, Dept. of CSE (AI&ML), Under the supervision of Prof. Subhash Mondal, won the Best Paper Award at the IEEE International Conference on Computing for Sustainability and Intelligent Future (COMPSIF 2025), held on March 21, 2025. Titled: "Disease Detection in Finger Millet Plant Using Fine-Tuned Transfer Learning Models" Students were honoured to receive the award from Prof. Rychagov Mikhail Nikolaevich from the National Research University of Electronic Technology (MIET), Moscow, Russia.



- Mr. Stephen Pinto (ENG20AS0031) student from the department of Aerospace Engineering cleared Gate Examination 2025 with AIR 140.

Your GATE 2025 Result [AE]

MARKS OUT OF 100\*

49.33

All India Rank in this test paper

140

Qualifying Marks\*\*

26.9    26    19.2

General    OBC-NCLEWS    SC-ST-PwD

GATE Score

601

\*Normalized marks in case of multifession papers (CE and CS).

\*\*A candidate is considered qualified if the marks secured are greater than or equal to the qualifying marks mentioned for the category, for which a valid category certificate, if applicable, must be produced along with the Score Card.

CLOSE

- Mr. AKSHAT AGARWAL (ENG22AM0072), a 6th-semester student, Dept. of CES(AI&ML), got the certificate of Merit on completion of the online course on “Geodata Processing using Python and Machine Learning” This online Course was conducted during 17th February 2025 to 28th February 2025.



- The Final-year students from the Department of Aerospace Engineering, Ms. Aini Safiyah (ENG21AS0006) and Ms. Deeksha R Shetty (ENG21AS0010), Top 10 Finalists in the 13th edition of the Quest Global Ingenium 2025 Program. Their innovative project “BoltBots: Autonomous Wind Turbine Inspection” was selected from a staggering 2878 team registrations and 392 idea submissions received from premier institutions across India. The project was guided by Dr. Srinath R, Assistant Professor, Department of Aerospace Engineering, and aimed at solving a critical problem in the renewable energy sector – the inspection of wind turbines at high altitudes using an autonomous robotic system.



- Mr. Mehul Malhotra (ENG21AS0024) completed the Industrial internship program at Bangalore Aircraft Industries Pvt Limited.



- A second-year student of the Artificial Intelligence and Robotics Department, Mr. Nilesh Sarkar (ENG23RA0038) has actively participated in the Microsoft AI and Chai Sip, Learn, Innovate organized by TechNexus Community on 15-03-2025 at Microsoft, Bangalore.



- A second-year student of the Artificial Intelligence and Robotics Department, Ms. A Kamalini Reddy (ENG23RA0048) for successfully participating in the Photography Workshop conducted by Harsha Narasimhamurthy organized by Le Gras Boulevard Photography Club, Dayananda Sagar University on the 14th of March 2025.



- A second-year student of the Artificial Intelligence and Robotics Department, Club Ms. Vrinda Katavkar (ENG23RA0024) for successfully participating in the Photography Workshop conducted by Harsha Narasimhamurthy organized by Le Gras Boulevard Photography Club, Dayananda Sagar University on the 14th of March 2025.



- Mr. Aditya S - (ENG23DS0001) & Mr. Shashi Kumar - (ENG23DS0034) had an incredible opportunity to visit SAP Labs, Whitefield, Bengaluru for the 1st edition of SAP Inside Track Bengaluru 2025 – Business AI on 1st March 2025.



- Ms. Sadgi Jaiswal (ENG23DS0082) has successfully participated in the AI Innovation Day: Bhasha Bandhu Ideathon on 25th February 2025 organized in collaboration with Microsoft and the Government of India's Bhashini Initiative.



- Ms. Sadgi Jaiswal (ENG23DS0082) has participated in Ideaverse'25 hosted by the IEEE Information Theory Society CSE(DS), Dayananda Sagar University on 20<sup>th</sup> February 2025.



- Mr. Ayush Singh (ENG23DS0098) has successfully participated in the AI Innovation Day: Bhasha Bandhu Ideathon on 25th February 2025 organized in collaboration with Microsoft and the Government of India's Bhashini Initiative.



- Mr. Ayush Singh (ENG23DS0098) participated in Ideaverse'25 hosted by the IEEE Information Theory Society CSE(DS), Dayananda Sagar University on 20<sup>th</sup> February 2025.



- Ms. Vedeshwari Nakate (ENG23DS0075) has successfully participated in the AI Innovation Day: Bhasha Bandhu Ideathon on 25th February 2025 organized in collaboration with Microsoft and the Government of India's Bhashini Initiative.



- Ms. Vedeshwari Nakate (ENG23DS0075) has participated in Ideaverse'25 hosted by the IEEE Information Theory Society CSE(DS), Dayananda Sagar University on 20<sup>th</sup> February 2025.



- Mr. Amit Singh (ENG23DS0096) has successfully participated in the AI Innovation Day: Bhasha Bandhu Ideathon on 25th February 2025 organized in collaboration with Microsoft and the Government of India's Bhashini Initiative.



- Mr. Sai Krishna S (ENG23DS0083) has successfully participated in the AI Innovation Day: Bhasha Bandhu Ideathon on 25th February 2025 organized in collaboration with Microsoft and the Government of India's Bhashini Initiative.



- Ms. Soumya Singh (ENG23DS0125) has successfully participated in the AI Innovation Day: Bhasha Bandhu Ideathon on 25th February 2025 organized in collaboration with Microsoft and the Government of India's Bhashini Initiative.



- Mr. Bharat Kumar (ENG23DS0005) has participated in the Three days Hands-on Workshops on Industrial IoT for Automation Organized by the Department of CSE (Data Science), DSU from 10<sup>th</sup> March to 12<sup>th</sup> March 2025 in association with Karunadu Technologies Private Limited, Bengaluru.



- Mr. Mithilesh N A - (ENG23DS0110) has participated in the Three days Hands-on Workshops on Industrial IoT for Automation Organized by the Department of CSE (Data Science), DSU from 10<sup>th</sup> March to 12<sup>th</sup> March 2025 in association with Karunadu Technologies Private Limited, Bengaluru. has participated in Ideaverse'25 hosted by the IEEE Information Theory Society CSE(DS), Dayananda Sagar University on 20<sup>th</sup> February 2025.



- Mr. Anshuman-(ENG22DS0026) has successfully completed the Online Course on “Geodata Processing using Python and Machine Learning” from 17<sup>th</sup> February 2025 to 28<sup>th</sup> February 2025 concerned by the Indian Institute of Remote Sensing, Dehradun.



- Ms. Akshaya B- (ENG21DS0006) has participated in the workshop AI/ML & 24 Hours Hackathon conducted by TechXcelerate from 22<sup>nd</sup> March to 23<sup>rd</sup> March 2025.



- Ms. Chaitra K-(ENG21DS0014) has participated in the workshop AI/ML & 24 Hours Hackathon conducted by TechXcelerate from 22<sup>nd</sup> March to 23<sup>rd</sup> March 2025.



- Mr. Shubham Kumar-ENG21DS0039 has participated in the workshop AI/ML & 24 Hours Hackathon conducted by TechXcelerate from 22<sup>nd</sup> March to 23<sup>rd</sup> March 2025.



- Mr. Nithin Kataria V (ENG24CS0151), Mr. D A Ajay (ENG24CS0052) and Ms. Garima (ENG24CY0105) 2<sup>nd</sup> sem CSE students as a team participated in the Kala Quest competition held at IIT Madras during 28<sup>th</sup> February 2025 and won the Runner Up (2nd Prize) of KalaQuest! prize money 8,000 rs on March 11<sup>th</sup> 2025 along with certificates.



- On March 12, 2025, the Red Cross Organization hosted a Walkathon under the theme "Walk for Humanity", starting from Bangalore University Jnana Bharathi Auditorium and concluding at Kanteerava Stadium. The event aimed to raise awareness about health, education, and disaster relief while promoting unity and social responsibility. Students from the Department of Computer Science and Technology (CST)—Ms. B Dhivya (ENG22CT0003), Ms. Varshini (ENG22CT0021), Ms. Yamuna (ENG22CT0052), and Ms. Pushyami (ENG22CT0045)—participated along with Dr. Santosh Kumar J, Associate Professor. From the Department of Artificial Intelligence and Machine Learning (AIML), Ms. Shiksha SK (ENG22AM0060) and Ms. Sharda Singh (ENG22AM0057) represented their department. Students from the Department of Computer Science and Engineering (CSE) also attended, showing their support for the humanitarian cause.





- Mr. Muzammil (ENG23CS0120), 4<sup>th</sup> semester CSE Student has successfully participated in the Photography Workshop conducted by Le Gras Boulevard Photography Club conducted by DSU on 14<sup>th</sup> March 2025.



- 14 final year BTech Projects from KSCST SPP scheme 2024-25 48th Series received funding of Rs. 60000/- on 14th March 2024.

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**48<sup>th</sup> series of Student Project Programme (SPP): 2024-25**  
 List of Student Project Proposals Approved for Sponsorship

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	AMOUNT SANCTIONED (Rs.)
434	48L_M_3864	PORTABLE IoT DEVICE WITH MOBILE APPLICATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ASHIN KRISHNAMURTHY	Ms. ANJANA LINDHANA Mr. AGHURISH KUMAR Ms. BHANUVA CHIRANGANI Ms. SURHAM BIL	5,000.00
435	48L_M_4386	INSIGHT VISION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANURAGKUMAR GOPU	Ms. GRIYAN K.R. Ms. KRITHIK M.C. Ms. PRIYA KUMARI Ms. RAJSHA S.	4,000.00
436	48L_M_4114	ADVANCED AUTONOMOUS VEHICLE SYSTEM USING BEHAVIOUR CLONING FOR PATH OPTIMIZATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. GOUDA THEERESHETH	Ms. RITEI MURTHAAR	4,500.00
437	48L_M_4679	VISIONARY AGAS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. REVATHI V	Ms. YASH SHINDE Ms. SHRIDHAN DAS Ms. VISHNUPRIYAA Ms. DIVYTA SUJANNA Ms. SHRANGI	4,500.00
438	48L_M_4687	TRAFFIC MANAGEMENT SYSTEM WITH AI & IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NILA S.R.	Ms. ARCHANJANAKAUSTUBH APTAR Ms. ACHAN ANVADH HANU Ms. VISHVA KAU	4,500.00
439	48L_M_5110	REST SENSE IoT POWERED SMART PILLOW FOR COMPREHENSIVE SLEEP MONITORING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. T.GANESH	Ms. ANSHITHA S. Ms. SHREYA MP Ms. SARDHANAKRISHNA SUDHAKAR Ms. RAJITHA SHREE S.	4,500.00

SPP: 48<sup>th</sup> Series of Student Project Programme (SPP): Sponsored Projects Page 112 of 117

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**48<sup>th</sup> series of Student Project Programme (SPP): 2024-25**  
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Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	AMOUNT SANCTIONED (Rs.)
440	48L_M_5111	SMART SURVEILLANCE: AI-DRIVEN THREAT DETECTION AND WOMEN SAFETY ENHANCEMENT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SAIKOLA N	Ms. SWARAJ KUMAR F Ms. V. KARTIK Ms. RAJESH BABU PADARATHI Ms. MANOJ KUMAR ASHER S.	4,000.00
441	48L_M_3628	INNOVATIVE AI-POWERED EARLY DETECTION OF SKIN DISEASES IN STRAY DOGS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SAIKOLA N	Ms. VENKATESH P Ms. MANDESHI P ASHITHA Ms. SANJAY S S Ms. SHREE VISHVA S	4,000.00
442	48L_M_1116	AI-ENABLED CLOUDLESS HOME ECOSYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. REVATHI V Dr. PRAMOD KUMAR NAR	Ms. ANURAG NITHY ASHWIN Ms. JAYANTHA B Ms. MATHEW JACOB Ms. NAREEK SINGH	4,500.00
443	48L_M_3978	IoT BASED POWER TRANSMISSION LINE FAULT DETECTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SANTOSH M	Ms. POOJA S S Ms. MONIKA S Ms. NEHAJITHA R Ms. SIDDHANT KUMAR C	4,500.00
444	48L_M_2144	VIRTUAL HERBAL GARDEN USING VIRTUAL REALITY METHODOLOGY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SRIHARAN N HIRESHITH	Ms. SHRI SHAMITHA Ms. AISHA ARIK FERNANDES Ms. BHOOJANA G	4,500.00
445	48L_M_3436	PERMANENT TEETH ALIGNMENT FOR OPTIMIZED DENTAL CARE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RAJESH T.M.	Ms. POOJA GR Ms. RAJANEETHY Ms. PRAFUL CHANDAN REDDY Ms. RAJESHVI	4,000.00

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**48<sup>th</sup> series of Student Project Programme (SPP): 2024-25**  
 List of Student Project Proposals Approved for Sponsorship

47. DAYANANDA SAGAR UNIVERSITY, KAMMANAGARA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	AMOUNT SANCTIONED (Rs.)
446	48L_M_5374	OPTIMIZED CROP DISEASE DIAGNOSIS AND PREVENTIVE OUTBREAK MANAGEMENT FOR PRODUCTIVE AGRICULTURAL SOLUTIONS	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. VINITA N	Ms. PRADEEP K Ms. ANISH CHANDRASEKAR Ms. ROHAN JOHN VARGHESE Ms. RICHITHA SOMDA S	3,000.00
447	48L_MSC_0007	BIODIESEL PRODUCTION FROM SEAWATER: IDENTIFICATION, ISOLATION AND THERAPEUTIC APPLICATION IN THE MANAGEMENT OF DENSITY AND DIABETES MELLITUS	M.Sc.	BIOLOGICAL SCIENCES	Dr. NEHA DEOKA Dr. RUPESH BABU MATHEW	Ms. SHWETHA MS Ms. ADARSH M	6,000.00
448	48L_MSC_0000	ENGINEERING SOLUTION FOR ENHANCED PRODUCTION OF THROMBOLYTIC FROM ACETOACETATE MOLECULAR-WEIGHT FOR TREATMENT OF RETICULUM POLYMER	M.Sc.	BIO-TECHNOLOGY	Dr. VINEETHA MS	Ms. MANASWINI S Ms. VISHVA S Ms. SHREYA S Ms. NISHANTH S	6,500.00
449	48L_M_4646	LINGERIDGE AI MULTILINGUAL SUMMARIZATION & TOOL	B.E.	COMPUTER ENGINEERING	Dr. PRAMOD KUMAR NAR	Ms. DIVYAN JAIN SINGH Ms. GHOSHAYATI KARANJANI Ms. UJWALA VISHVA	2,000.00

- Mr. Kumar Ayush (ENG22CS0347), Mr. Meet Pandya (ENG22CS0363), Mr. Abhay Prakash Choubey (ENG22CS0221), Ms. Medha Sree Anand (ENG22CS0562), 6th semester CSE students secured fourth place in the Alliance 3.0 –Code Sangram Hackathon with a cash prize of Rs.5000 under the mentorship of Prof. Shilpa Sudheendran, Assistant professor during 19<sup>th</sup> to 21<sup>st</sup> March 2025.



- Ms. Vaishnavi P (ENG21CS0459 ), Ms. Archana B S(ENG22CS1021), Ms. Preethi V(ENG21CS0458), 8th-semester Students, Department of CSE presented a paper titled “Optimizing Diabetic Retinopathy screening with Machine Learning: A data-driven approach”, under the guidance of Dr. George Fernandez I, Associate Professor, Department of CSE and Dr. Dhathri, Assistant Professor, Department of Ophthalmology, CDSIMER in the IEEE sponsored First International Conference on Frontier Technologies and Solutions (ICFTS 2025) held at St. Joseph’s College of Engineering, Chennai, Tamil Nadu during 27<sup>th</sup> and 28<sup>th</sup> March 2025.



- Mr. Mohammed Arif (ENG22CS1032), Mr. Sangamesh (ENG22CS1040), Mr. Rakesh P G(ENG22CS1037), and Mr. Yashwanth G M(ENG22CS1043), 8th-semester Students, Department of CSE presented a paper titled “Smart management of Crop Monitoring Using Drone Technology”, under the guidance of Dr. George Fernandez I, Associate Professor, Department of CSE in the IEEE sponsored First International Conference on Frontier Technologies and Solutions (ICFTS 2025) held at St. Joseph’s College of Engineering, Chennai, Tamil Nadu during 27<sup>th</sup> and 28<sup>th</sup> March 2025.



- Mr. Nagajayanth A S(ENG23CY0073) has successfully completed the CC Course Conclusion & Final Assessment, receiving certification on February 26, 2025. This certification, valid for three years, demonstrates his commitment to continuous learning and professional growth.



- Mr. Vaishanth Mohan (ENG23CY0044) actively participated in the AI Innovation Day: Bhasha Bandhu Ideathon on February 25, 2025. This event, organized in collaboration with Microsoft and the Government of India's Bhashini Initiative, focused on AI-driven solutions for linguistic and technological advancements. His participation reflects a strong commitment to innovation and the application of AI for societal benefit.



- Mr. Manav Rathod (ENG23CY0025), Mr. Veer Gandhi.S (ENG23CY0047), Mr. Saurav Pandey (ENG22CY0039) has actively participated in the "Techo Workshop Series '25" on Cyber Security & CTF Challenge, held on March 8-9, 2025, at IISc Bengaluru. Organized by Techobytes Technologies in collaboration with Rhapsody 3.0, Student Council, and IISc, the workshop has provided valuable insights into cybersecurity trends and ethical hacking techniques.



- Mr. Saurav Pandey (ENG22CY0039) has secured runner-up (2<sup>nd</sup> place) at the GenAI Hack Fest-2025 on 20<sup>th</sup> and 21<sup>st</sup> March 2025 organized by CMR Institute of Technology, Bengaluru in association with HappyFox.



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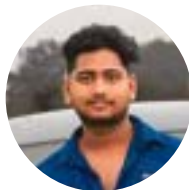
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