

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING



AIML Monthly Newsletter: 30-06-25 to 31-07-25



1. One-Day Faculty Development Program

The Department of CSE (AI & ML), School of Engineering, Dayananda Sagar University, successfully organized a Faculty Development Program (FDP) on "**Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting**" on **8th July 2025** at **Lecture Hall-2**



The session was delivered by **Prof. S.V.K.R. Rajeswari**, Assistant Professor, Public Speaker, and Life Coach from the same department. The FDP highlighted the significance of emotional intelligence in both personal and professional domains, with a special focus on conscious parenting and self-awareness.



Key highlights of the FDP included:

- Understanding the core components of Emotional Intelligence
- Neuro-Linguistic Programming (NLP) techniques for self-realization

- Reflective parenting practices to raise emotionally intelligent children
- An engaging interactive session with participants

The program was well-received by faculty members across departments and aligned with Sustainable Development Goal 3: Good Health and Well-being. The FDP was coordinated by Prof. Govind Kumar Pandey, with support from our department leadership and university patrons. The department extends its gratitude to all attendees and looks forward to more such enriching sessions in the future.



1.2 Future of Work” Hackathon

The Department of Computer Science and Engineering (AI & ML) at Dayananda Sagar University, in association with Kroolo and The Generative Beings, successfully hosted the “Future of Work” Hackathon on 19th and 20th July 2025 at its Bengaluru campus. This immersive, in-person event brought together a vibrant community of developers, founders, AI enthusiasts, and innovators for a weekend dedicated to shaping the future through generative AI.

The event began with an inaugural ceremony featuring a welcome address by **Dr. Jayavrinda Vrindavanam**, Chairperson of CSE (AI & ML), followed by an insightful keynote from Mr. Shashank Singh, CEO of Kroolo, who shared his vision on the transformative potential of AI in the evolving workplace. The inauguration was further enriched by the presence of distinguished guests, including **Dr. B.S.**

Satyanarayana, Vice Chancellor of DSU, who inspired participants with his address.

Over the course of two days, participants tackled real-world challenges, showcasing their creativity and technical skills. The competition offered cash prizes worth INR 1,00,000 along with career opportunities at Kroolo, making it a highly engaging and rewarding experience. The hackathon proved to be a hub of innovation, collaboration, and forward-thinking for aspiring tech leaders.



1.3 Five-Day Value Added Course

The Department of CSE (AI & ML) at Dayananda Sagar University conducted a 5-Day Value Added Course titled "Foundations of Machine Learning: A Mathematical Approach" from 14–18 July 2025, held online via Zoom and made compulsory for all 5th semester students. The course focused on teaching machine learning from the fundamentals—covering Python programming, mathematical foundations, statistics, and real-world AI applications.

The course featured expert talks and hands-on sessions by a distinguished panel of speakers:

Dr. Jayavrinda Vrindavanam, Dr. Bahubali Shiragapur, Dr. Durbadal, Dr. Meenakshi, Dr. Vegi Fernando, Dr. Vinutha, Dr. Abdul Haq Nalband, Dr. Prateek Verma, Dr. Mude Nagarjuna Naik, Dr.

Sugandha Saxena, Prof. Ankita Thakkar, Prof. Trupthi Rao, Prof. S.V.K.R. Rajeswari, and Prof. Bhuvana Mohini.

Key topics covered included:

- Supervised Learning and Project Design
- AI/ML using Sensor Data
- Computer Vision and Feature Extraction
- ROC, AUC, and Regularization
- Trends in AI/ML and Cognitive Systems
- ML Applications in Industry and Cybersecurity

Participants were awarded a certificate of participation, and the course empowered them to build ML models, apply mathematical reasoning, and explore real-world industry applications—building confidence to pursue advanced machine learning projects.

 SCHOOL OF ENGINEERING Department of CSE (AI & ML) 5-Day Value Added Course Foundations of Machine Learning: A Mathematical Approach 14 – 18 July 2025 9:30 AM – 4:40 PM Zoom (Online) Compulsory for all 9th Semester Students Convenor Dr. Jayavrinda Vrindavanam Faculty Coordinators Prof. Ankita Thakkar Prof. Bhuvana Mohini	Course Objectives • Learn ML from the ground up from concept to code • Hands-on Python sessions • Math & stats simplified for AI/ML • Real-world projects & applications • Discover latest AI trends Perfect for beginners & intermediates 📜 Certificate of participation provided 👤 Speakers include: Dr. Jayavrinda Vrindavanam Dr. Bahubali Shiragapur Dr. Durbadai Dr. Meenakshi Dr. Vogli Fernando Dr. Vinutha Dr. Abdul Haq Nalband Dr. Prateek Verma Dr. Mude Nagarjuna Naik Dr. Sugandha Saxena Prof. Ankita Thakkar Prof. Trupthi Rao Prof. S.V.K.R. Rajeswari Prof. Bhuvana Mohini Course Outcomes • Understand the basics of AI and Machine Learning • Use Python libraries to build simple ML models • Apply math and stats concepts in real ML problems • Explore how ML is used in industry and daily life • Build confidence to take up advanced ML projects	14 July 9:30 – 9:50 AM: Inauguration & Intro 9:50 – 10:30 AM: Introduction to AI & ML 10:30 – 11:30 AM: Evolution of AI and ML 11:40 – 12:40 PM: Python Libraries – Hands-on 1:30 – 4:40 PM: Python Libraries – Hands-on (contd.) 15 July 9:30 – 11:30 AM: Mathematics for AI and ML 11:40 – 12:40 PM: Statistics for AI and ML 1:30 – 3:00 PM: Statistics for AI and ML (contd.) 3:10 – 4:40 PM: Supervised Machine Learning – Hands on 16 July 9:30 – 10:15 AM: ML Project Design 10:15 – 11:30 AM: ML Applications using Sensor Data 11:40 – 12:30 PM: Introduction to Computer Vision 2:00 – 3:00 PM: Feature Extraction 3:10 – 4:40 PM: Pattern Recognition 17 July 9:30 – 11:00 AM: ML Models – Hands-on 11:10 – 12:40 PM: ROC, AUC, Regularization 1:30 – 3:00 PM: Trends in AI/ML 3:10 – 4:40 PM: Cognitive Systems 18 July 9:30 – 11:30 AM: ML in Industry 11:40 – 1:10 PM: AI/ML Advances – Hands-on 2:00 – 2:40 PM: ML for Cybersecurity 2:40 – 3:00 PM: End Session Remarks
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2 Faculty activities & Achievements

- 2.1 **Prof. Trupthi Rao**, Assistant Professor, Department of CSE(AI&ML) has presented paper in the "International Conference on Emerging Trends in Industry 4.0 Technologies (ICETI4T 2025)" organized bySIES Graduate School of Technology, Mumbai on 6th and 7th

June 2025. Paper 1: Advanced Risk Prioritization In Supply Chain Management

3.



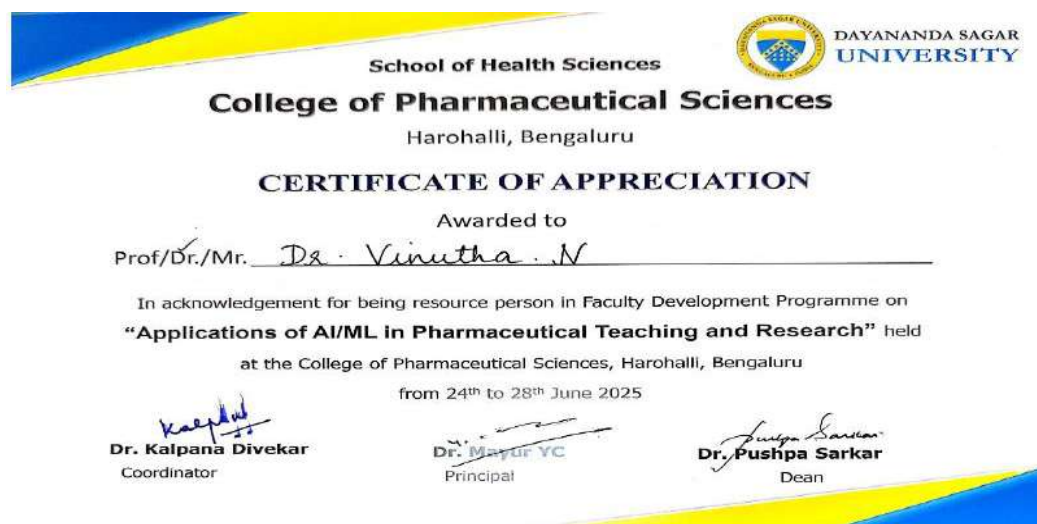
- 3.1 **Prof. Trupthi Rao**, Assistant Professor, Department of CSE(AI&ML) has received the certificate for successfully completing the Microsoft Learn for Educators Foundational AI Bootcamp Training Workshop held from 14th to 15th June 2025. This program, organized by Microsoft in collaboration with IN-BIOT Private Limited (a Microsoft Training Services Partner), focused on foundational concepts and practical applications of artificial intelligence. As part of the training, she completed the Microsoft-approved courses AI-900: Microsoft Azure AI Fundamentals and AI-102: Designing and Implementing a



Microsoft Azure AI Solution, which included 9.5 hours of intensive

learning. The certificate was officially signed by Anuradha Singh of IN-BIOT Private Limited.

- 3.2 **Dr. Vinutha N**, Associate Professor, Department of CSE(AI&ML) was awarded a Certificate of Appreciation by the College of Pharmaceutical Sciences, School of Health Sciences, Dayananda Sagar University, Harohalli, Bengaluru. This recognition was given for her valuable contribution as a resource person in the Faculty Development Programme titled “Applications of AI/ML in Pharmaceutical Teaching and Research.” The FDP was conducted at the college from 24th to 28th June 2025, acknowledging her efforts in advancing knowledge at the intersection of artificial intelligence, machine learning, and pharmaceutical sciences. The certificate was signed by Dr. Kalpana Divekar (Coordinator), Dr. Mayur YC (Principal), and Dr. Pushpa Sarkar (Dean).



- 3.3 **Dr. S.Bahubali**, Associate Professor, Department of CSE(AI&ML) was awarded a Certificate of Appreciation by the College of Pharmaceutical Sciences, School of Health Sciences, Dayananda Sagar University, Harohalli, Bengaluru. This certificate acknowledges his contribution as a resource person in the Faculty Development Programme on “Applications of AI/ML in Pharmaceutical Teaching and Research,” held from 24th to 28th June 2025. His involvement helped enhance the understanding and integration of artificial intelligence and machine learning in pharmaceutical education and research. The certificate bears the

signatures of Dr. Kalpana Divekar (Coordinator), Dr. Mayur YC (Principal), and Dr. Pushpa Sarkar (Dean).



- 2.5 **Prof. S.V.K.R.Rajeswari**, was awarded a Certificate of Appreciation by the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), School of Engineering, Dayananda Sagar University. She served as a distinguished speaker in the Faculty Development Program titled "Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting," held on 8th July 2025. Her session was highly appreciated for its insightful and engaging content, focusing on emotional intelligence and conscious parenting. Her expert guidance and knowledge-sharing significantly enhanced the learning experience of all participants. The certificate was signed by Prof. Govind Kumar Pandey (Assistant Professor, CSE AI & ML) and Dr. Jayavrinda Vrindavanam V (Professor and Chairperson, CSE AI & ML).



2.6 **Prof. Govind Kumar Pandey**, Assistant Professor, Dept. of CSE (AI&ML) has received a Certificate of Appreciation from the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), School of Engineering, Dayananda Sagar University, for his outstanding contribution as an organizer of the Faculty Development Program titled "Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting" held on 8th July 2025. His dedication, active involvement, and thoughtful coordination were instrumental in ensuring the program's smooth execution and success. His leadership created a meaningful platform for participants to explore emotional intelligence and conscious parenting. The certificate is signed by himself and Dr. Jayavrinda Vrindavanam V, Professor and Chairperson of CSE (AI & ML), DSU.



- 2.7 **Prof. Bhuvana Mohini T N**, was awarded a Certificate of Appreciation by the Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), School of Engineering, Dayananda Sagar University, for her commendable role as an organizer in the Faculty Development Program titled “Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting” held on 8th July 2025. Her active efforts, dedication, and insightful coordination played a vital role in the smooth execution and overall success of the event. Through her leadership, she helped create a meaningful platform for participants to explore emotional intelligence and conscious parenting. The certificate was signed by Prof. Govind Kumar Pandey (Assistant Professor, CSE AI & ML) and Dr. Jayavrinda Vrindavanam V (Professor and Chairperson, CSE AI & ML).



- 2.8 **Prof. Trupthi Rao**, Assistant Professor, Dept. of CSE (AI&ML) has actively participated in the Faculty Development Program titled “Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting” held on 8th July 2025 at Dayananda Sagar University. Through this program, the participant has gained valuable insights and skills to foster emotional intelligence, empowering them to navigate the challenges of parenting toddlers, teenagers, and nurturing their own inner child.



- 2.9 **Trupthi Rao**, Assistant Professor at Dayananda Sagar University, was awarded a Certificate of Participation for attending the 7th Summer School on Advances in Deep Architectures for Signal, Image and Vision Applications (ADASIVA 2025). The program was organized by the Computer Vision and Biometrics Lab at the Indian Institute of Information Technology (IIIT), Allahabad, and conducted in virtual mode from July 07–12, 2025. This event focused on cutting-edge developments in deep learning for signal, image, and vision-related applications. The certificate is signed by course coordinators Dr. Shiv Ram Dubey and Dr. Satish Kumar Singh of IIIT Allahabad.



2.10 **Prof. S.V.K.R.Rajeswari**, Assistant Professor, CSE (AI & ML) served as a Resource Person during the Five-Day Online Value Added Course on “Foundations of Machine Learning: A Mathematical Approach”, held from 14th to 18th July 2025, organized by the Department of CSE (AI & ML), School of Engineering, Dayananda Sagar University.

She delivered expert sessions on:

- Introduction to AI and ML, ML Types and Systems
- Design and Process Flow of ML Projects
- ML Applications using Sensor Data
- Use of ML in Industry – Lecture and Hands-on

The sessions were well-received and aimed at bridging theoretical foundations with practical insights, empowering students to understand and apply machine learning concepts in real-world applications.



2.11 **Prof. Trupthi Rao**, Assistant Professor, CSE (AI & ML) served as a Resource Person during the Five-Day Online Value Added Course on "Foundations of Machine Learning: A Mathematical Approach", held from 14th to 18th July 2025, organized by the Department of CSE (AI & ML), School of Engineering, Dayananda Sagar University.

She delivered an expert hands-on session on "Supervised Machine Learning", where students were introduced to core ML algorithms, their applications, and implementation techniques. The session was designed to bridge theoretical understanding with practical skills, helping participants gain confidence in building ML models.



- 2.12 **Prof. Trupthi Rao, Assistant Professor,CSE (AI & ML)**, Prof. Trupthi Rao, Assistant Professor, Dept. of CSE (AI&ML) has participated in the 5-Day Faculty Development Programme on “Artificial Intelligence: From Fundamentals to Advanced Reasoning” from 10th to 15th July 2025 at T. John Institute of Technology, Bangalore, India.



- 2.13 **Prof. Pradeep Kumar K**, Department of CSE (AI & ML), Dayananda Sagar University, was invited as a distinguished resource person for a dedicated session on 23rd July 2025. His session, titled “Demystifying Natural Language Models: From Fundamentals to Functional Code”, was held from 11:00 AM to 5:00 PM at the CS&E (AI&ML) Lab 04. The session provided deep insights into the mathematical foundations underlying Natural Language Models (NLMs), focusing on practical implementation using Python and relevant AI libraries.



Prof. Pradeep Kumar K's interactive approach and real-time code demonstrations helped participants connect theoretical principles with functional aspects of language models. His session empowered faculty members to confidently integrate AI tools into curriculum delivery, especially in domains requiring a blend of mathematical rigor and programming proficiency.



The FDP featured eminent speakers from institutions like IISc, IIIT, and professionals from top tech firms including SAP Labs, Adobe, HPE, and Intuit. The program's agenda included key topics such as Linear Algebra, Probability & Statistics, Optimization

Techniques, Calculus, and Discrete Mathematics—all within the context of AI. The event also facilitated hands-on training and discussions to enhance the teaching-learning ecosystem in technical institutions.

Prof. Pradeep's contribution to this FDP reflects his commitment to academic excellence and interdisciplinary knowledge sharing in the AI community.

- 2.14 **Prof. Pradeep Kumar K**, Department of CSE (AI & ML), Dayananda Sagar University, had played a role of Reviewer in the most prestigious conference IEEE CONECCT 11th International Conference on Electronics, Computing and Communication Technologies held on July 10th to 13th 2025 at IEEE Bangalore section at sterling's Mac hotel, Bangalore.



- 2.15 **Dr. Lakshmanan M**, Assistant Professor, Department of CSE (AI & ML), Dayananda Sagar University, has been awarded a Certificate of Appreciation by the IEEE Bangalore Section for his valuable contribution as a Reviewer at the 11th International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT 2025), held from July 10–13, 2025 at Sterling's Mac Hotel, Bangalore. His expertise and commitment to academic

excellence significantly contributed to the success of the conference's technical review process.



- 2.16 **Dr. Joshuva Arockia Dhanraj**, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, actively participated in the Faculty Development Program titled *“Nurturing Emotional Intelligence: A Journey from Self-Awareness to Conscious Parenting”* held on **8th July 2025** at Dayananda Sagar University, Bengaluru. The session provided valuable insights into fostering emotional intelligence, helping participants understand the nuances of parenting toddlers and teenagers, while also nurturing their own inner child.



- 2.17 **Dr. Joshuva Arockia Dhanraj**, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, has been awarded a Certificate of Appreciation by the IEEE Bangalore Section for his contribution as a Reviewer at the 11th International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT 2025), held from July 10–13, 2025, at Sterling's Mac Hotel, Bangalore. His involvement in the peer-review process played a vital role in maintaining the technical quality and academic rigor of the conference.



- 2.18 **Dr. Joshuva Arockia Dhanraj**, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, received a Reviewer Certificate from Springer Nature in recognition of his contribution to the peer review process for Energy Informatics in 2025. His review of a manuscript exemplifies his commitment to maintaining academic integrity and supporting high-quality scholarly publishing.



- 2.19 **Dr. Joshuva Arockia Dhanraj**, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, has been recognized as a Technical Committee Member for the upcoming 3rd International Conference on Intelligent Computing and Robotics (ICICR 2026), to be held in Paris, France, from June 12–14, 2026. His selection reflects his continued contributions to the advancement of intelligent computing and robotics on a global platform.



- 2.20 **Dr. Joshuva Arockia Dhanraj**, Associate Professor, Department of CSE (AI & ML), Dayananda Sagar University, has been selected as a Technical Committee Member for the 3rd International Conference on Machine Intelligence and Digital Applications (MIDA 2026), scheduled to take place in Xi'an, China, from April 24–26, 2026. His inclusion in the committee reflects his ongoing contributions to the fields of machine intelligence and digital innovation.



- 2.21 **Prof. Trupthi Rao**, Assistant Professor, Dept. of CSE (AI&ML) has participated in the "IEEE Signal Processing Society Seasonal School on Explainable AI for Biometric Signal Processing", held from 16 July to 20 July 2025. The event was organized by Computer Vision and Biometrics Lab (CVBL), Department of Information Technology, Indian Institute of Information Technology Allahabad.



- 2.22 **Prof. Anubrata Singharoy**, Assistant Professor, Department of CSE (AI&ML), served as a Resource Person and delivered an expert session on "*Mathematics of AI &ML*" during the Five-Day Online Value-Added Course titled "*Foundations of Machine Learning: A Mathematical Approach*", held from 14th to 18th July 2025, organized by the Department of CSE (AI&ML), School of Engineering, Dayananda Sagar University

