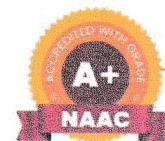




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Department of Computer Science & Engineering
Department of CSE- (AI & ML)



Date: 12-02-2025

Report on 3 days FDP on “Artificial Intelligence, Machine Learning and Deep Learning in the Data Revolution Era: Progress and Applications”

Event Name: Faculty Development Program (FDP)

About the FDP:

The aim of this Faculty Development Program (FDP) was to enrich participants' understanding of the latest advancements in AI, ML, and DL, along with their emerging applications. Esteemed experts from prestigious academic institutions and leading industries were invited to share their insights and experiences in research. This FDP was designed to inspire beginners to cultivate an interest in AI, ML, and DL, while also supporting researchers in advancing their work in these domains.

Dates: 3rd February to 5th February 2025

Objectives of FDP:

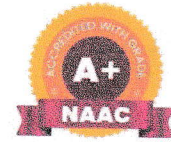
- To provide a comprehensive understanding of AI, ML, and DL fundamentals and their latest advancements, enabling participants to stay updated with cutting-edge technologies.
- To inspire beginners to develop an interest in AI, ML, and DL by offering foundational knowledge and practical exposure.
- To bridge the gap between academic research and industry applications by facilitating interactions with experts from leading academic institutions and industries.
- To support researchers/faculties in enhancing their ongoing work by sharing insights into emerging research trends, tools, and methodologies in AI, ML, and DL.

Outcome of FDP:

- Enhanced understanding of **AI, ML, and DL fundamentals and advancements.**
- Gained **hands-on experience in AI/ML model development** and deployment.
- Deep insights into **emerging trends, ethical AI practices, and industry applications.**
- Provided a **platform for collaboration** between faculty, researchers, and industry experts.



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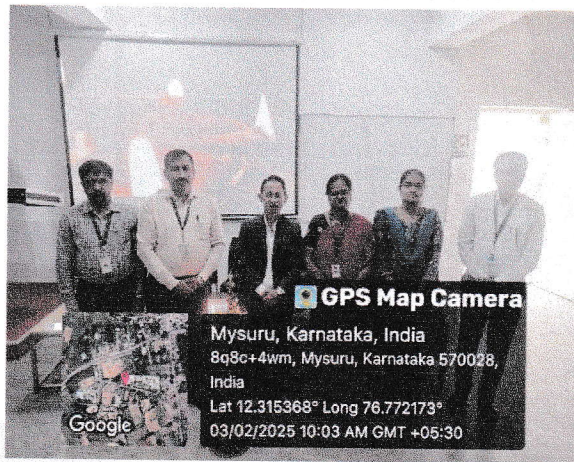
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Key Highlights of the FDP:

The event commenced on **3rd February 2025** with a grand **inaugural ceremony** graced by our **Chief Guest, Dr. Thotreingam Kasar**, an esteemed expert in the field of AR/ VR and AI. We were also honored by the presence of our beloved **Principal, Dr. L. Basavaraj**, and our **Advisory Committee Members Dr. Bhagashree SR, Dean Research and Dr. Srinivasa K, Dean Student Affairs, Convenors Dr. Puttegowda D and Dr. Anil Kumar C J**, whose continuous encouragement and guidance made this FDP a grand success.



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Day 1: 3rd February 2025 (Monday)

The Faculty Development Program (FDP) began with the Inaugural and Keynote Session delivered by **Dr. Thotreingam Kasar, Director, EDspire, Mysore** who provided an insightful introduction to the growing influence of AR/ VR and Artificial Intelligence (AI) in research and industry. The session highlighted emerging trends, ethical considerations, and the transformative impact of AI-driven technologies.



The second session, "**Introduction to Advanced Concepts in AI, ML, and DL,**" was conducted by **Dr. Dhanalakshmi B K**, Assistant Professor, Department of CSE, BMS Institute of Technology, Bengaluru. This session covered fundamental and advanced concepts in AI, ML, and DL, focusing on their real-world applications, learning paradigms, and algorithmic advancements.

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In the afternoon, **Dr. Uma Mahesh R N**, Associate Professor, Dept. of CSE- AIML, ATMECE, Mysuru led a **Hands-On Session on the Development of AI/ML Pipelines**. Participants engaged in practical exercises to build AI/ML workflows, including data preprocessing, model training, validation, and performance evaluation using industry-standard tools and frameworks.



Day 2: 4th February 2025 (Tuesday)

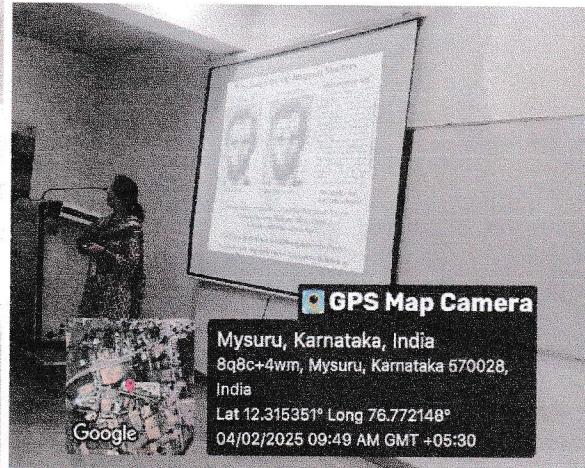
The second day commenced with a session on **"Deep Learning Architectures and Trends for Research"** by **Dr. Sowmya Lakshmi B S**, Assistant Professor, Department of Machine Learning, BMS College of Engineering, Bengaluru. This session explored modern deep learning models, including CNNs, RNNs, Transformers, LSTM, and their applications in various domains such as healthcare, finance, and automation.



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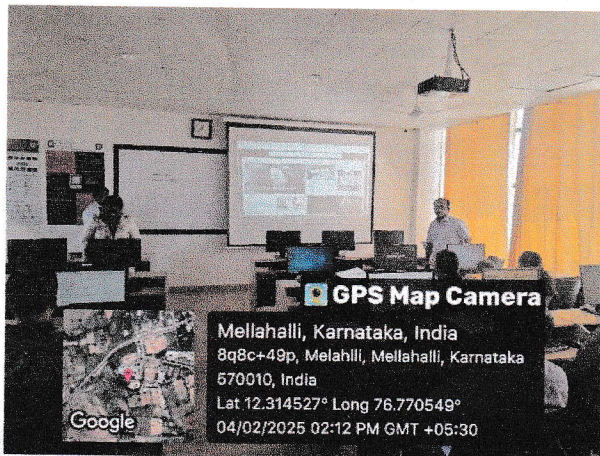


The next session, "**AI Model Deployment and Optimization**," presented by **Dr. Deepak N A**, Associate Professor, Department of CSE, R V Institute of Technology and Management, Bengaluru focused on scalability, efficiency, and real-world deployment of AI models. Key topics included model compression techniques, cloud-based deployment, and optimization strategies to enhance model performance.



The day concluded with a **Hands-On Session on Building Advanced DL Architectures**, conducted by **Dr. Santosh Kumar J**, Associate Professor, CST Department, Dayananda Sagar University, Bengaluru. Participants gained practical experience in designing and implementing complex deep learning architectures, fine-tuning models, and integrating AI into real-world applications using orange tool.

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Day 3: 5th February 2025 (Wednesday)

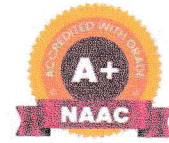
The final day began with a crucial session on **"Ethics, Bias, and Responsible AI,"** delivered by **Dr. Rekha V**, Associate Professor, Dept of CSE, SoET, CHRIST (Deemed to be University), Bengaluru. This session emphasized the ethical challenges in AI, including algorithmic bias, fairness, transparency, and accountability in AI-driven decision-making systems.



Following this, **Mr. Shreesha Shagarithaya**, Solution Architect, Inchcape Shipping Services, Chennai presented **"Real-World Applications and Industry Case Studies,"** offering insights into how AI and ML are transforming industries. Case studies from healthcare, agriculture, finance, and smart cities showcased the practical impact of AI-driven solutions.



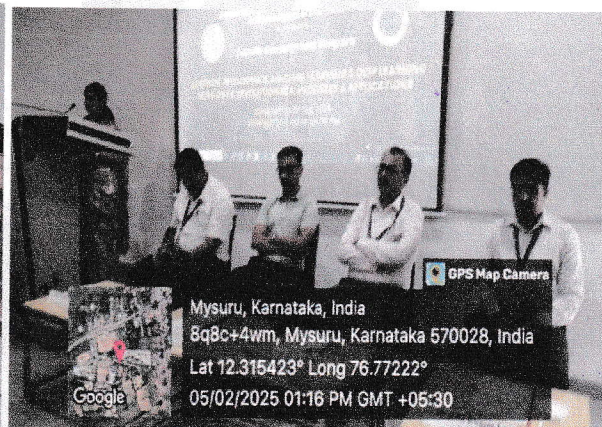
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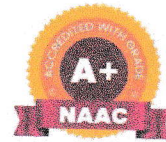
The Valedictory Session marked the conclusion of the FDP, where organizers and speakers shared their reflections on the program's success. Participants provided positive feedback, emphasizing the hands-on learning experience, industry relevance, and applicability of concepts. Certificates were distributed, and the event concluded with a vote of thanks.



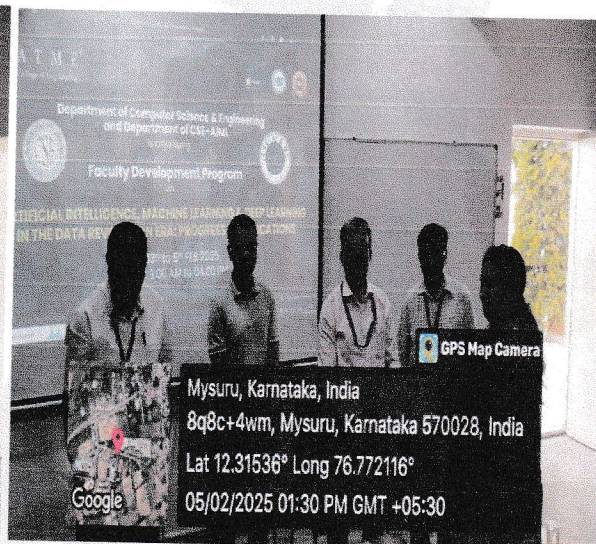
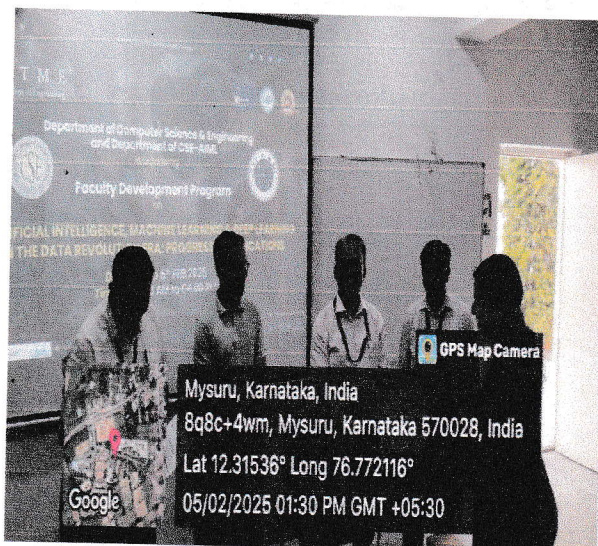


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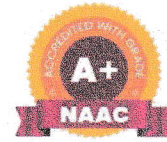
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Participants Details:

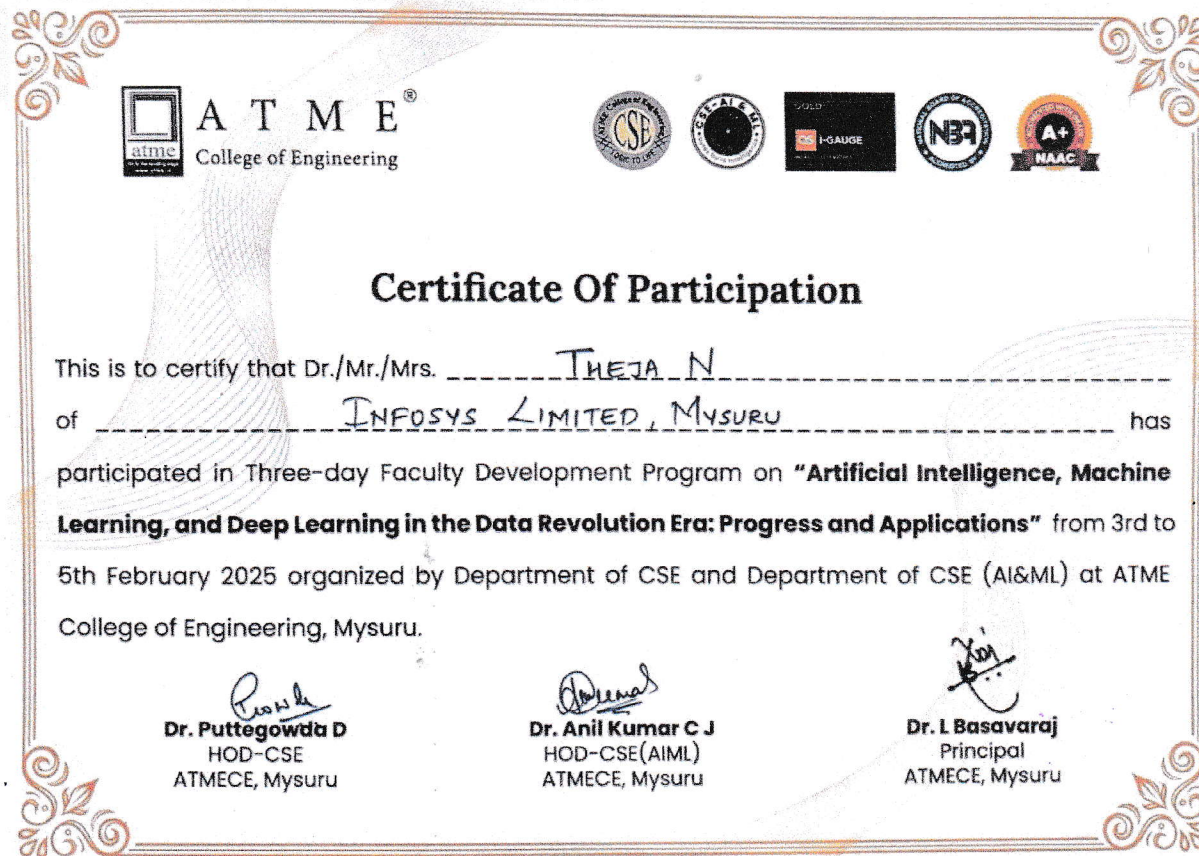
The 3-Day Faculty Development Program (FDP) witnessed active participation, with 50 attendees from both academic institutions and industry. Among them:

- **20 participants** joined from various colleges across Mysuru, contributing to a diverse learning environment.
- The rest comprised faculty members from ATMECE along with a participant from the industry, enhancing the discussions with practical insights.

The varied backgrounds of the participants fostered an engaging and collaborative learning experience.

Certificate:

The below is the sample certificate given to the participants during the FDP.





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Convenor:

Puttegowda 12/2/25

Dr. Puttegowda D

Professor and Head, CSE, ATMECE, Mysuru

Anil Kumar 13/2/25

Dr. Anil Kumar C J

Associate Professor and Head, CSE(AIML), ATMECE, Mysuru

Co - Convenor:

Shilpa 13/2/25

Dr. Shilpa B L

Associate Professor

Dept. of CSE, ATMECE, Mysuru