

Department of Computer Science Engineering – (Data Science)

13/2/2025

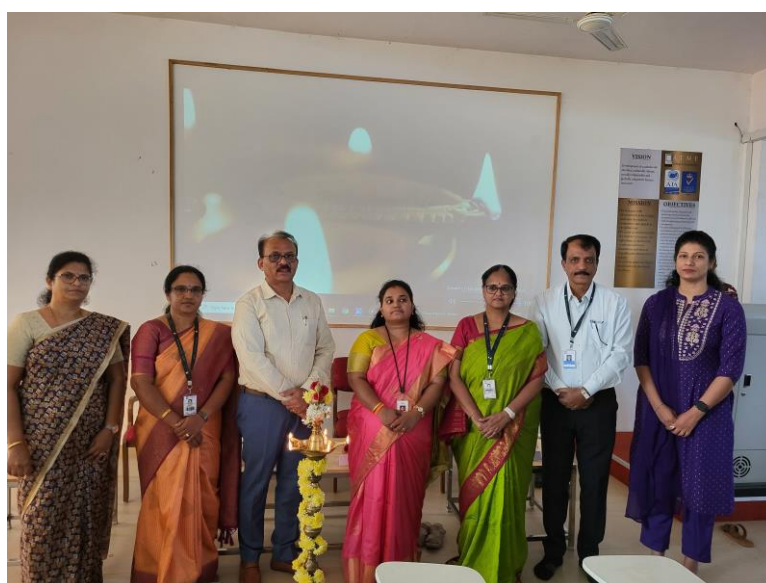
Press Report

on

Three-Day State-Level FDP on "Unlocking Generative AI" at ATMECE, Mysuru

The Department of Computer Science & Engineering (Data Science) at ATME College of Engineering successfully organized a **Three-Day State-Level Faculty Development Program (FDP) on "Unlocking Generative AI"** from **February 10th to 12th, 2025**. The program aimed to provide a **foundation in Natural Language Processing (NLP), Prompt Engineering, and Hands-on Training** aligned with the **VTU syllabus for the 6th Semester subject "Generative AI – BAIL657C"**. The event was held **in association with IEI, ATME IEEE Student branch-35744, IQAC- ATMECE**.

The FDP was inaugurated by **Dr. L. Basavaraj, Principal, ATMECE**, in the presence of distinguished guests, faculty members, and participants from various institutions. The welcome speech was delivered by **Dr. Anitha D B, Associate Professor & Head, CSE-Data Science**, highlighting the growing importance of Generative AI in academia and industry. She emphasized how NLP and AI-driven models like **GPT, BERT, and LangChain** are revolutionizing modern technology.



Inauguration of Three-Day State-Level FDP

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The FDP featured expert talks and practical demonstrations by **Dr. Meenakshi H. N. (Senior Principal Consultant, Infosys, Mysuru)** and **Mr. Siddhanna Janai (Analyst in Learning, Infosys, Mysuru)**. The Vote of Thanks was delivered by **Dr. Vinod Kumar P**, Associate Professor, CSE-Data Science, expressing gratitude to the management, resource persons, ATME IEEE Student volunteers, faculty coordinators, and participants for their support and active involvement.



Participants during FDP session.

Day 1 (February 10, 2025)

The session was addressed by Dr. Meenakshi H. N., Senior Principal Consultant, Infosys, Mysuru, who provided in-depth insights into Natural Language Processing (NLP), pretrained models such as BERT and GPT, and word embeddings like Word2Vec. She explained the evolution of NLP techniques, their real-world applications, and the significance of embedding methods in improving machine understanding of human language. The session also included an engaging hands-on workshop covering Lab Cycle Programs 1, 2, and 3, where participants

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implemented text processing, tokenization, and vector representations. Through practical demonstrations, **Dr. Meenakshi** guided attendees in experimenting with pretrained transformers and understanding their applications in generative AI, ensuring an interactive and enriching learning experience.



Resource Person Dr. Meenakshi H N addressing participants on Day-1

Day 2 (February 11, 2025)

The second day of the FDP featured an insightful session by **Mr. Siddhanna Janai**, **Analyst in Learning, Infosys, Mysuru**, who introduced participants to **Generative AI and Prompt Engineering using LangChain APIs**. He provided a detailed overview of the **Hugging Face ecosystem**, highlighting its extensive library of pretrained models and tools for NLP applications. Additionally, he explained the capabilities of the **Google Gemini ecosystem**, demonstrating how these advanced AI models can be leveraged for various real-world applications. The session was complemented by an engaging **hands-on training session covering Lab Cycle Programs 4, 5, and 6**, where participants explored prompt engineering techniques, model fine-tuning, and text generation tasks, enhancing their practical understanding of Generative AI.

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Day-2 of Three-Day State-Level FDP

Day 3 (February 12, 2025)



Resource Person Siddhanna Janai addressing participants on Day-3

On the final day of the FDP, **Mr. Siddhanna Janai, Analyst in Learning, Infosys, Mysuru**, conducted an advanced session on **Prompt Engineering with LangChain**, where he delved into **sophisticated prompt optimization techniques and best practices for enhancing AI model responses**. He also guided participants through the process of **building a chatbot using Cohere and Google Gemini models**, demonstrating how these cutting-edge AI frameworks can be leveraged for interactive and intelligent conversational agents. The session concluded with an

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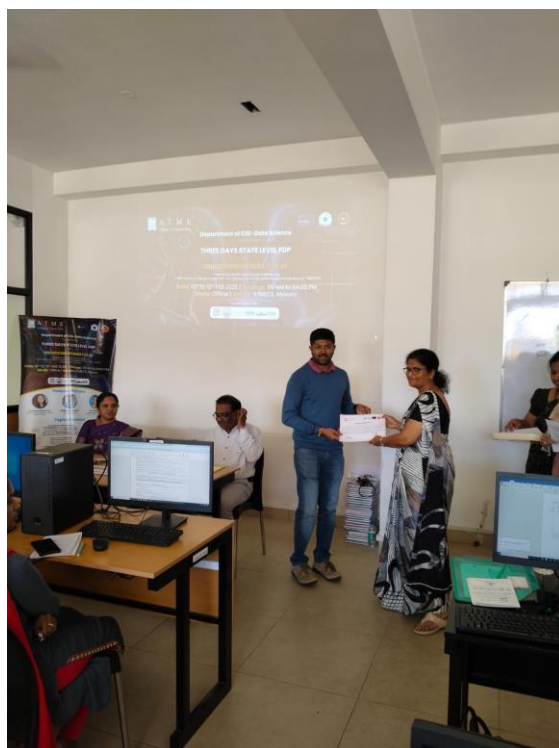
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immersive **hands-on practice covering Lab Cycle Programs 8, 9, and 10**, where participants gained practical experience in fine-tuning prompts, integrating AI models, and developing real-time chatbot applications, equipping them with valuable skills for AI-driven innovations.

Valedictory Session

The FDP concluded with a valedictory session, where participants shared their feedback and learning experiences, highlighting the impact of the hands-on training and expert sessions. As a key outcome of the program, participants successfully implemented chatbot applications, applying the concepts learned throughout the sessions. They experimented with different models and fine-tuned their prompts to enhance chatbot interactions. Additionally, AI-generated responses were evaluated for detail and relevance, allowing participants to understand the nuances of prompt engineering and model behavior, further strengthening their practical knowledge in Generative AI.



Certificate Distribution to participants during FDP Valedictory

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Memento is presented to Resource person Siddhanna Janai as token of appreciation

Group photography



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FDP Convenor:

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Associate Professor and Head, CSE- Data Science, ATMECE, Mysuru

FDP Co- Convenor:

Dr. Vinod Kumar P

Associate Professor, Dept. of CSE-Data Science, ATMECE, Mysuru

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