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- **Dr. B. Swathi Sowmya**
  Assistant Professor, Department of IT, CBIT

Intended Participants
Faculty, Research Scholars, Students, and Industry Professionals.

Registration fee:
- **Rs. 200 for Faculty**
- **Rs. 150 for Research Scholars & Students**
- **Rs. 400 for others**

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Last Date for Registration: 17-05-2025
For Registration & Other Details
Contact: Dr. M. Anila
Mobile No: +91 95023 78201
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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (Autonomous)

A Two-Week online Summer School
on
"Generative AI and Large Language Models"

19thMay, 2025 – 30thMay, 2025

Registration Form

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ABOUT CBIT (AUTONOMOUS)

Chaitanya Bharathi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana established in the year 1979. The college offers 11 UG and 10 PG Programmes. The Institute has become Autonomous under UGC w.e.f. 2013-14. UG Programmes are accredited by NBA in the year 1998, 2004, 2008, 2013, 2017, 2022 and Five PG Programmes have been accredited by NBA in 2020. The Institute is accredited by NAAC with CGPA of 3.59 on seven-point scale at 'A++' grade in 2023 for five years. CBIT (A) ranked in the rank band 150-200 in Engineering Category under National Institutional Ranking Framework (NIRF), Govt. of India, MHRD. The College Campus is spread across 50 acres.

ABOUT CSE DEPARTMENT

The Department of CSE was started in the year 1985 with an intake of 20. The intake was gradually increased to 300 with five sections. Department started M. Tech. program in the year 2002 and currently running with an intake of 24. CSE Department is a recognized research center under Osmania University. B.E. (CSE) Program was accredited by the NBA for the first time in the year 1998 with 'A' grade for 3 years and being successfully accredited.

The Department has committed and well qualified staff. The faculty is active in publishing their research work in various Conferences / Journals. It has been conducting various workshops and certification programs including Microsoft and IBM, professional activities in collaboration with CSI, ISTE along with student branches of IEEE and CSI.

ABOUT THE WORKSHOP

This workshop on Generative AI Fundamentals and Applications offers a comprehensive exploration of the foundational concepts, models, and real-world implementations of Generative AI. Participants will gain a deep understanding of generative models such as GANs, VAEs, and Transformers, and learn how they power innovations across text, image, and application domains. Participants will learn to:

- Develop and deploy AI-powered applications using LangChain and Retrieval-Augmented Generation (RAG)
- Explore Diffusion models in generative vision applications
- Leverage cloud platforms like AWS, Azure, and Google Vertex AI for scalable AI solutions
- Use ChatGPT for productivity, coding, content generation, and customer service
- Apply Prompt Engineering and Parameter-Efficient Fine-Tuning (PEFT) for optimizing LLM performance

WORKSHOP CONTENTS

- Generative AI Fundamentals and Applications
- GANs and VANs
- Python with Generative AI and Applications of GANs and VANs
- Attention Mechanism and Transformer-based Generative Models
- Large Language Models (LLMs)
- Experiment with OpenAI's GPT models for Text Generation and Classification
- Case Study: Generative AI for Personalized Learning
- GenAI for Vision
- Prompt Engineering and Parameter-Efficient Fine-Tuning (PEFT)

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Department of Computer Science and Engineering

In Association with

IEEE Hyderabad Section Computer Society Chapter

IEEE COMPUTER SOCIETY

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