GITAM
SCHOOL OF SCIENCE

Two-Day National Workshop on

LLMs and Generative AI

13th to 14th February 2025

Register on or before
11th February 2025

Scan to Register

📍 J-311, Department of Mathematics,
GITAM School of Science
GITAM (Deemed to be University)
Hyderabad Campus - 502329

Conveners
Dr. Motahar Reza
Dr. B. M. Naidu

Coordinators
Dr. Krishna K
Dr. D. Mallikarjuna Reddy

Objective of the Workshop

The goal of this workshop is to delve into the rapidly evolving domains of Large Language Models (LLMs) and Generative AI, providing participants with an in-depth understanding of their theoretical foundations and practical applications. It aims to equip attendees with a strong foundation in LLMs, covering their architecture, pre-training techniques, and fine-tuning processes for specific tasks. The workshop emphasizes bridging theory and practice through hands-on sessions, enabling participants to implement LLMs and Generative AI techniques and apply them to real-world problems. It will also explore cutting-edge advancements in AI, including transformer architectures, generative text models, and multimodal AI applications across domains such as natural language processing and image generation. Furthermore, the workshop will address critical challenges, such as ethical considerations, bias, fairness, and deployment issues, fostering discussions on responsible AI practices. By showcasing how LLMs and Generative AI are revolutionizing industries like healthcare, finance, education, and entertainment, the workshop will highlight the interdisciplinary applications of these technologies, empowering participants to leverage their potential effectively.

Benefits to Participants

Participants of this workshop will gain

- Comprehensive Knowledge: An in-depth understanding of LLMs and Generative AI concepts, from foundational principles to advanced techniques.
- Hands-on Experience: Practical exposure to implementing LLMs using popular open-source tools and frameworks.
- Industry Insights: Access to real-world case studies and best practices shared by renowned experts from academia and industry.
- Networking Opportunities: A platform to interact with leading researchers, academicians, and professionals in the field of Artificial Intelligence.
- Future Readiness: Skills and insights to leverage AI technologies in academic research, industrial projects, and entrepreneurial endeavours.

Major topics covered in the workshop

Major Topics Covered

Introduction to Large Language Models (LLMs)
- Overview of LLMs
- Pre-training and fine-tuning techniques

Generative AI: Concepts and Applications
- Transformer architectures and their role in Generative AI
- Applications in text, image, and code generation

Ethics and Challenges in LLMs and Generative AI
- Bias, fairness, and ethical considerations
- Challenges in scalability and deployment

Hands-on Sessions
- Implementing LLMs with open-source frameworks
- Practical applications in AI-powered systems

Real-world Applications and Case Studies
- AI in industry: Use cases and future trends

Resource Persons:

Prof. Siba Udgata
Professor, School of Computer and Information Sciences, University of Hyderabad

Prof. Ansuman Banerjee
Professor, Advanced Computing & Microelectronics Unit, Indian Statistical Institute, Kolkata

Prof. Animesh Mukherjee
Professor, Dept. of Computer Science and Engineering, Indian Institute of Technology, Kharagpur

Prof. Maunendra Sankar Desarkar
Associate Professor, Department of AI and CSE, Indian Institute of Technology, Hyderabad

Mr. Praveen
Senior Director, Samsung Ltd., Bengaluru

Dr. Akansha Kumar
Principal Data Scientist, Jio Platforms Ltd

Dr. Himadri Sekhar Paul
Senior Scientist R&D, TCS Innovation Labs, Kolkata

Dr. Motahar Reza
School of Science, GITAM Deemed to be University, Hyderabad Campus

Target Audience

This workshop is tailored for

- Academicians
- Research scholars
- B.Tech., M.Tech., and M.Sc. level students working in the areas of Artificial Intelligence and Data Science

Registration Fee

- Research Scholars and Students (Indian): ₹500
- Academic Staff/Faculty (Indian): ₹1,000
- Industrial Personnel (Indian): ₹3,000

The registration fee includes a workshop kit, working lunch, and high tea on both days. Travel, boarding, and lodging expenses are to be borne by the participant. Hostel accommodation can be arranged at nominal rates upon prior request.

For further details please contact:

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