VIT®
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

One Day Workshop on Design and Development of Systems using Generative AI and Large Language Models

31st March 2026

Organized by

School of Computer Science and Engineering (SCOPE)

Vellore Institute of Technology

Vellore – 632 014

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Coordinators:
Dr. Geetha Mary A
Professor
Department of Database Systems

Dr. Jayasubalakshmi R
Assistant Professor Sr
Department of Software Systems

Contents of the Programme

- Introduction to Gen AI Models
- Transformers & Attention Mechanisms
- Hands-on with Gen AI Tools
- Generative Adversarial Networks
- Fundamentals of Large Language Models
- Popular LLMs and Ecosystem
- Hugging Face models
- Industry Use Cases

Target Audience:

Faculty members, Research Scholars, UG and PG students

Registration:

The participants are requested to register for the workshop through the following link

https://events.vit.ac.in/

Registration fee (Including GST):

- Faculty Members : Rs. 350/-
- Research Scholars : Rs. 300/-
- UG/PG Students : Rs. 250/-

Last date for registration: 29 – 03 - 2026

About VIT

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research encourage us in our relentless pursuit of excellence. Our Memoranda of Understanding with various international universities are our major strength.

About SCOPE

The school has one of the best infrastructures including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices, employ innovative approaches in programming and problem solving, and create Large Scale Software Systems. With an objective of developing core competence in the subject matter specializations and special interest groups for learning newer technologies.

The School has formed the following technical departments:

- Department of Analytics
- Department of Computational Intelligence
- Department of Database Systems
- Department of Software Systems
- Department of Information Security
- Department of IoT
- Department of Quantum AI

About Workshop

This workshop focuses on the technical design and development of systems using Generative AI and Large Language Models (LLMs). It introduces Generative AI models and their ability to create text, code, images, and other content from learned data distributions. Different types of generative models such as transformer-based LLMs, diffusion models, and GANs are briefly discussed. Core concepts such as transformer architecture, tokenization, embeddings, and attention mechanisms are covered. It explains system architecture, including frontend, backend, and LLM integration. By the end, participants can design and implement robust applications using Generative AI and LLMs.

Speaker

Dr. Sasikala R
Professor,
SCOPE, VIT, Vellore
Dr. Rajkumar S
Professor
SCOPE, VIT, Vellore
Dr. Priya G
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