



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

One Day Workshop
on
Generative AI: Building RAG-Based
AI Applications and Intelligent AI
Agents

17th September 2026

Organized by
School of Computer Science and
Engineering (SCOPE)
Vellore Institute of Technology
Vellore – 632 014



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Coordinators:

Dr. Siva Sankari S,
Assistant Professor
Department of Analytics, SCOPE

Dr. S. Sridevi, Assistant Professor
Department of Information Security
SCOPE

Topics to be covered

- Introduction to Generative AI
- Advanced Deep Learning Techniques
- Transformer Architecture
- Large Language Models (LLMs)
- Prompt Engineering
- Retrieval-Augmented Generation (RAG)
- Vector Databases and Semantic Search
- Intelligent AI Agents and Agentic AI
- Building RAG-Based AI Applications
- Hands-on Generative AI Application Development

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:

- Faculty Members : Rs. 500/-
- Research Scholars : Rs. 300/-
- UG/PG Students : Rs. 250/-

Last date for registration: 14.09.2026

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 spur us on 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 infrastructure 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

The workshop on “Hands-on Generative AI: Building RAG-Based AI Applications and Intelligent AI Agents” is designed to provide participants with a comprehensive understanding of emerging concepts, technologies, and practical applications in Generative AI. Participants will explore the fundamentals of Large Language Models (LLMs), Transformer architectures, Prompt Engineering, Retrieval-Augmented Generation (RAG), vector databases, and intelligent AI agents. Through interactive hands-on sessions, attendees will gain practical skills in developing RAG-based applications that can retrieve and generate responses from domain-specific knowledge sources, as well as building intelligent AI agents capable of reasoning, tool usage, and multi-step task execution. The

workshop aims to bridge the gap between theoretical concepts and real-world AI application development, empowering students, researchers, educators, and professionals to design and implement intelligent, knowledge-aware, and task-oriented Generative AI solutions.

Speakers

Mr. Manish Jain

Principal Engineer,
PayGlocal Technologies Private Limited,
Bengaluru

Mr. Manish Jain is an AI professional with expertise in Generative AI, LLMs, RAG, Agentic AI, Conversational AI, and NLP. He has extensive hands-on experience in developing RAG pipelines, LLM-powered applications, and intelligent multi-agent systems. His expertise includes LLM fine-tuning, information retrieval, and AI agent development. Through this workshop, participants will gain practical skills in building RAG-based AI applications and intelligent AI agents.

Contact us

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