

03 Days Workshop on Generative AI Report

Format: 9014/0

Organized by : Department of Artificial Intelligence and Data Science

Resource Person : Mr.Swamy,Brainovision Solutions India Pvt. Ltd.

Venue : SH-104

Date : 23-03-2026,24-03-2026 & 25-03-2026

Event Co-Ordinators :Mr.Venkat Swamy,Ms.G.Hema sri

Report

Event Overview:

The Department of Artificial Intelligence and Data Science organized a 3-day workshop on Generative AI from 23rd to 25th for students.

The Generative AI Workshop is an intensive program designed to provide participants with a strong foundation in modern AI technologies and practical skills to build real-world applications. The workshop begins with core concepts such as Generative AI, transformer architecture, and the working principles of Large Language Models (LLMs), along with an understanding of their capabilities and limitations. Participants also learn essential prompting techniques to effectively interact with AI systems.

As the workshop progresses, it introduces advanced techniques including prompt engineering strategies, structured outputs, and control methods to improve AI responses. Participants explore powerful concepts like Retrieval-Augmented Generation (RAG), embeddings, and vector databases, enabling them to build more accurate and context-aware AI solutions.

The final phase focuses on optimization and implementation, where learners gain insights into model selection, performance tuning, cost efficiency, and scalability. Through hands-on project development, participants build and present their own generative AI applications, gaining practical experience and confidence to apply these skills in real-world scenarios.

Objective:

The objective of this workshop is to provide participants with a strong understanding of Generative AI concepts, including how Large Language Models work and how to effectively interact with them using prompting techniques. It aims to develop practical skills in advanced methods such as prompt engineering, Retrieval-Augmented Generation (RAG), and embeddings, while also introducing optimization strategies for performance and cost. Ultimately, the workshop prepares participants to design, build, and deploy real-world generative AI applications with confidence.

Event Activities:

Day 1 – AI & LLM Foundations (Common) Morning Session • Introduction to Generative AI • Transformer Architecture • How LLMs Work Afternoon Session • LLM Capabilities & Limitations • Introduction to Prompting Concepts • Exercises on Prompt Design

Day 2 – Advanced Gen AI Techniques Morning Session • Prompt Engineering (Zero-shot, Few-shot, Role-based) • Structured Outputs & Control Techniques Afternoon Session • Retrieval-Augmented

Generation (RAG) • Embeddings & Vector Databases • Exercises on RAG Design

Day 3 – Optimization + Implementation Morning Session • Model Selection & Performance Optimization • Cost, Latency & Scaling Considerations Afternoon Session • Hands-on Project Development • Build Generative AI Application • Final Output & Presentation

Out Come of Workshop

- Understand core concepts of Generative AI and LLMs
- Apply effective prompting and prompt engineering techniques
- Design and implement RAG-based AI solutions
- Work with embeddings and vector databases
- Optimize AI models for performance, cost, and scalability
- Build and present a real-world generative AI application

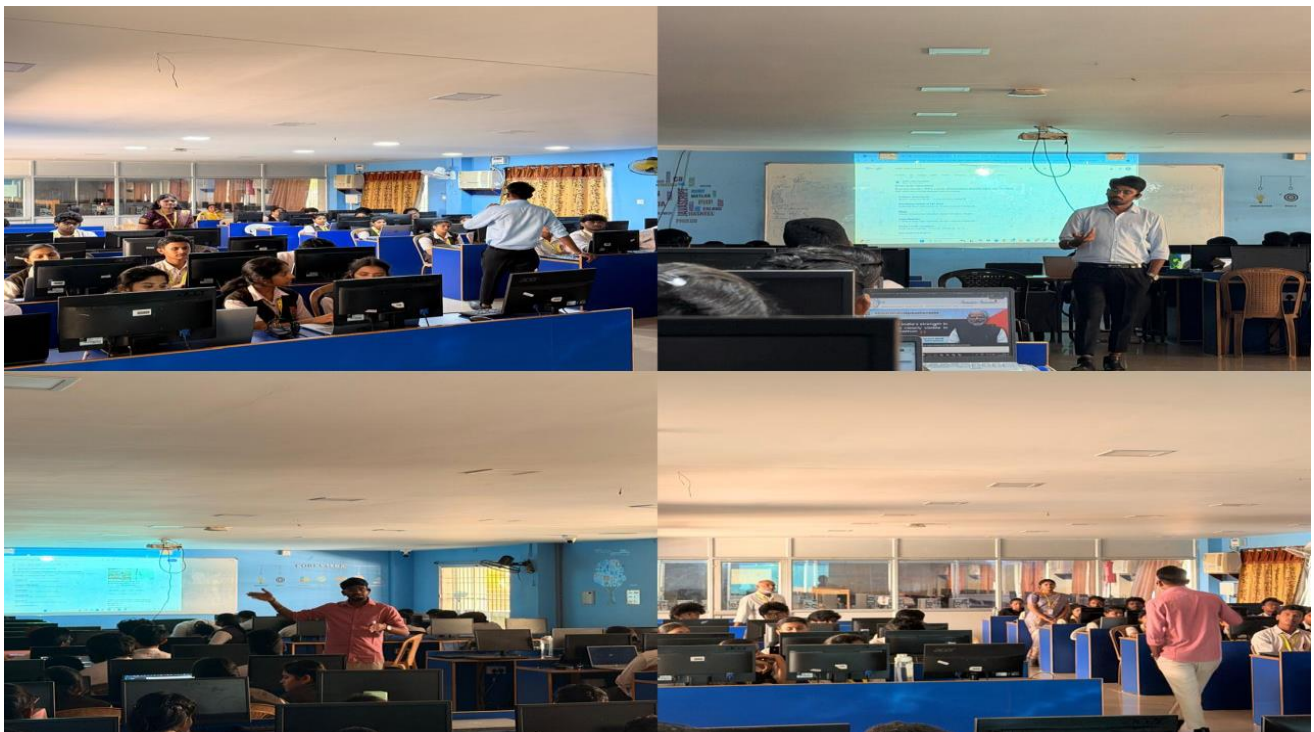
Feed Back:

Students provided highly positive feedback, appreciating the balance of theory and hands-on training, the relevance of real-time projects, and the exposure to industry-level AI practices.

Conclusion:

The workshop provides a comprehensive understanding of Generative AI concepts along with hands-on experience in building practical applications. It equips participants with the skills to effectively design, optimize, and deploy AI solutions in real-world scenarios. Additionally, it enhances problem-solving abilities and prepares learners to explore advanced opportunities in the field of AI.

Photos:



Event Coordinator

HoD

Dean-Academics

Principal

