

# LLM Engineer

**Duration – 06 Days / 46 Hours**

## Program Description

This comprehensive program explores the cutting-edge domain of Transformers and Generative AI, with a focus on Large Language Models (LLMs) and their applications. Learners will gain foundational knowledge of Transformer architectures, delve into advanced topics like prompt engineering, Retrieval-Augmented Generation (RAG), vector databases, and AI agent frameworks.

The course also emphasizes real-world implementation skills including fine-tuning, deployment, securing, and operationalizing LLMs for enterprise and production environments.

## Learning Goals

- ❖ Understand Transformer architecture and LLM fundamentals.
- ❖ Apply prompt engineering for effective model interaction.
- ❖ Use RAG and vector databases to enhance LLM capabilities.
- ❖ Fine-tune and deploy LLMs in real-world scenarios.
- ❖ Build and manage AI agents using agentic frameworks.

## Course Topics

- ❖ Transformers and LLM
- ❖ Prompt Engineering
- ❖ Vector DB, RAG and LangChain
- ❖ LLM fine tuning and deployment
- ❖ AI Agents
- ❖ Guardrails & Operationalization