Agentic AI

Category: AI & Tech | Duration: 3 Months (12 Weeks)

~~Rs. 6,500~~	**Rs. 4,500**	You Save Rs. 2,000	+ GST (18%) as applicable

Course Overview

This program takes learners from core AI/LLM concepts to building real, autonomous AI agents that can reason, plan, use tools, and complete multi-step tasks. By the end of the course, learners will be able to design, build, and deploy production-ready agentic AI applications.

Prerequisites	Tools & Technologies
Basic Python knowledge is helpful but not mandatory. A laptop with internet access is required.	Python, OpenAI/Anthropic APIs, LangChain, LangGraph, Vector Databases (ChromaDB/Pinecone), RAG pipelines, Streamlit/FastAPI, Git & GitHub

Curriculum

Weeks 1-2: Foundations of AI & LLMs

- Introduction to Artificial Intelligence and Generative AI
- Understanding Large Language Models (LLMs) and how they work
- Setting up the development environment (Python, APIs, Git)
- Working with LLM APIs (OpenAI / Anthropic / open-source models)

Weeks 3-4: Prompt Engineering & LLM Applications

- Prompt design principles and best practices
- Few-shot, chain-of-thought, and structured prompting techniques
- Building simple LLM-powered applications
- Output parsing, function calling, and structured responses

Weeks 5-6: Introduction to AI Agents

- What is an agent? Reasoning, planning, and action loops
- Introduction to LangChain and agent frameworks
- Tool calling and integrating external APIs into agents
- Building your first single-purpose AI agent

Weeks 7-8: Memory & Retrieval-Augmented Generation (RAG)

- Vector databases and embeddings
- Building a RAG pipeline for document Q&A
- Giving agents short-term and long-term memory
- Combining RAG with agentic workflows

Weeks 9-10: Multi-Agent Systems & Orchestration

- Designing multi-agent architectures with LangGraph
- Agent-to-agent communication and task delegation
- Guardrails, validation, and handling agent errors
- Monitoring and debugging agentic workflows

Weeks 11-12: Capstone Project & Deployment

- Design and build a complete agentic AI application
- Deploying agents via FastAPI / Streamlit
- Cost optimization and production best practices
- Project presentation and code review

What You Will Learn

- Understand how LLMs and generative AI systems work end-to-end
- Write effective prompts and structure LLM outputs reliably
- Build autonomous agents that use tools, memory, and reasoning
- Implement RAG pipelines for knowledge-grounded applications
- Design and deploy multi-agent systems for real-world tasks
- Showcase a portfolio-ready agentic AI capstone project

To register your interest for this course, fill out the interest form on our website or contact us directly using the details below. Syllabus content is subject to minor changes to keep pace with industry updates.