

About the Company

We aim to bridge the gap between academic learning and industry expectations through practical, industry-oriented education. We are building a community of industry professionals passionate about sharing their expertise and making high-quality, industry-relevant education accessible to aspiring professionals.

Benefits of Completing the Course

- **Production-Ready GenAI Portfolio:** Build and deploy advanced applications utilizing RAG systems, multi-agent workflows, and Model Context Protocol (MCP).
- **Modern Tech Stack Mastery:** Gain hands-on expertise in LLM APIs, LangChain, LlamaIndex, vector databases, n8n automation, and MCP.
- **Real-World Engineering:** Solve actual business challenges in document retrieval, autonomous task execution, and cross-platform workflow automation.
- **Career Acceleration:** Position yourself strongly for high-demand roles like GenAI Engineer, LLM Application Developer, and AI Automation Specialist.

Month-by-Month Course Overview

Month 1: GenAI Foundations, Prompt Engineering & LLM APIs

- **Module 1: Generative AI & LLM Foundations:** What is AI, Machine Learning, Deep Learning vs. Generative AI; Understanding LLMs (GPT, Claude, Gemini, Llama, and open-source models); Tokens, context windows, parameters, and temperature controls; Model selection, hallucinations, and why LLMs fail.
- **Module 2: Prompt & Context Engineering:** System vs. user prompts, role prompting, and few-shot prompting; Chain-of-thought concepts and structured prompting; JSON outputs, output schemas, prompt templates, and variables; Context injection, context compression, prioritization, and prompt injection defense.
- **Module 3: LLM APIs & Application Engineering:** REST APIs, HTTP protocols, JSON payloads, and request/response lifecycles; Integrating OpenAI, Gemini, and Claude APIs with streaming responses; Function/tool calling, embeddings, and token usage tracking; API cost calculations, rate limit handling, and error management.
- **Module 4: RAG Fundamentals & Knowledge Retrieval:** Core RAG architecture and addressing LLM hallucinations; Document loaders, parsing, cleaning, and text chunking; Vector databases (FAISS, Chroma, PostgreSQL/pgvector); Similarity search, metadata filtering, context injection, and citations.

Month 2: Advanced RAG, AI Agents & n8n Automation

- **Module 1: Advanced RAG & Knowledge Systems:** Limitations of basic RAG and hybrid search implementation; Query rewriting, multi-query retrieval, and reranking layers; Parent-child retrieval and multi-document RAG architectures; RAG evaluation metrics, retrieval quality, and grounded answer validation.
- **Module 2: AI Agents Fundamentals:** Anatomy of an AI agent (agent loop, goals, planning, reasoning); Tool calling, memory state management, and tool selection; Agent boundaries, failure modes, and human-in-the-loop patterns; *API & Prompt Engineering Checkpoint Projects:* Automated invoice extractor, customer support triage API, and CLI coding assistant.
- **Module 3: n8n Foundations & Workflow Automation:** Introduction to workflow automation and n8n architecture; Nodes, triggers, actions, expressions, and JSON webhooks; Core logical nodes (IF, Switch, Merge, Loop, Wait, Error handling); Managing credentials and third-party API integrations.
- **Module 4: AI & n8n Business Automation:** Integrating AI nodes, LLM providers, and AI Agent nodes; Building dynamic workflows with tools, memory, and structured outputs; Connecting AI to APIs, databases, email, and spreadsheets; Implementing human approval triggers and guardrails.

Month 3: Model Context Protocol (MCP), Multi-Agent Systems & Capstone

- **Module 1: Model Context Protocol (MCP):** Introduction to MCP and its role in connecting AI to the real world; MCP Client and MCP Server architecture setup; Exposing tools, resources, and prompts securely; Security considerations, permissions, and comparison with traditional APIs.
- **Module 2: Multi-Agent AI Systems:** Transitioning from single-agent to multi-agent architectures; Agent specialization and supervisor-worker orchestration patterns; Agent handoffs, parallel/sequential execution, and shared state; Conflict resolution and human-in-the-loop governance.
- **Module 3: Production AI & System Reliability:** AI evaluation frameworks (hallucination testing and prompt regression); RAG and agent evaluation using test datasets and golden questions; System observability, logging, tracing, and retry strategies; Production security, data privacy, and guardrail implementation.
- **Module 4: End-to-End Capstone Projects:** *Enterprise RAG Knowledge Assistant:* Hybrid search, reranking, citation checking, and evaluation; *Autonomous Multi-Agent Business Operations Hub:* Supervisor/worker agents integrated with n8n workflows; *MCP-Powered Local Data Analyst Agentic Workspace:* Custom MCP server/client setup with secure resource access.

Learning Journey Visual Roadmap (Step-by-Step Process Flow Layout)

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Month 1 Roadmap: GenAI Foundations, Prompting & RAG

Deliverable: Structured prompts, LLM API integrations, vector databases, and RAG architectures

2

Month 2 Roadmap: Advanced RAG, Agents & n8n Automation

Deliverable: Hybrid search, AI agent loops, n8n workflow triggers, and business automation nodes

3

Month 3 Roadmap: MCP, Multi-Agent Systems & Capstone

Deliverable: MCP servers/clients, supervisor-worker multi-agent hubs, and enterprise capstone projects

Course Pricing & Investment

Course Name	Original Price	Discount	Price After Discount
3-Month Course (Full Course)	₹50,000	30%	₹35,000