

Since 2007, Making IT Experts & Products

Course: Generative AI & LLM Development

Duration: 1000 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, Salesforce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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Introduction to Generative AI

- * What is Generative AI?
- * Applications of Generative AI
- * Evolution of AI Models
- * AI Ethics and Responsible AI

Large Language Models (LLMs)

- * Introduction to LLMs
- * Transformer Architecture
- * Tokens and Embeddings
- * Popular LLMs (GPT, Llama, Gemini, Claude)

Prompt Engineering

- * Prompt Design
- * Few-shot & Zero-shot Prompting
- * Chain of Thought Prompting
- * Role Prompting

Python for AI Development

- * Python Basics
- * Virtual Environment
- * API Integration
- * JSON Handling

OpenAI API Development

- * OpenAI API
- * Chat Completion API

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- * Function Calling
- * Streaming Responses

Hugging Face Models

- * Transformers Library
- * Pipelines
- * Model Hub
- * Inference API

LangChain Framework

- * Chains
- * Prompt Templates
- * Memory
- * Agents

Vector Databases

- * Embeddings
- * FAISS
- * ChromaDB
- * Pinecone Basics

Retrieval-Augmented Generation (RAG)

- * Document Loading
- * Chunking
- * Embedding Documents
- * Semantic Search

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AI Agents

- * Autonomous AI Agents
- * Tool Calling
- * Task Automation
- * Multi-Agent Systems

Building AI Applications

- * AI Chatbots
- * Document Q&A Systems
- * Content Generation
- * AI Assistants

Deployment

- * Streamlit
- * FastAPI
- * Docker Basics
- * Cloud Deployment

Final Projects

- * AI Customer Support Chatbot
- * PDF Question Answering System
- * AI Resume Analyzer
- * Enterprise Knowledge Assistant

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- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

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