

Since 2007, Making IT Experts & Products

Course: Generative AI & LLM Development

Duration: 100 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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Month 1 - Python Programming & AI Foundations

- * Python Fundamentals
- * Variables, Data Types & Operators
- * Control Statements

Functions & Modules

- * Object-Oriented Programming
- * Exception Handling
- * File Handling
- * Virtual Environment & Package Management
- * NumPy
- * Pandas
- * Matplotlib & Seaborn
- * Introduction to AI, ML & Deep Learning
- * Git & GitHub Essentials

Month 2 - NLP, Transformers & Prompt Engineering

- * Natural Language Processing Fundamentals
- * Text Cleaning & Tokenization
- * Word Embeddings (Word2Vec, GloVe)
- * Sentence Transformers
- * Attention Mechanism
- * Transformer Architecture
- * BERT, GPT, T5 Overview
- * Llama, Mistral, Gemma Models

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- * Prompt Engineering Fundamentals
- * Zero-shot, One-shot & Few-shot Prompting
- * Chain of Thought Prompting
- * Role Prompting
- * Structured Output Prompting
- * Prompt Evaluation & Optimization

Month 3 - LLM Development & RAG Systems

- * OpenAI API
- * Azure OpenAI
- * Google Gemini API
- * Anthropic Claude API
- * Hugging Face Transformers
- * Model Inference
- * Embeddings
- * Vector Databases
- * FAISS
- * ChromaDB
- * Pinecone
- * Milvus
- * Document Processing
- * Chunking Strategies
- * Semantic Search

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- * Retrieval-Augmented Generation (RAG)

- * Production RAG Architecture

- * Document Question Answering

- * Knowledge Base Systems

Month 4 - AI Agents, LangChain & Full Stack AI Development

- * LangChain Fundamentals

- * Prompt Templates

- * Chains & Sequential Chains

- * Memory Management

- * Output Parsers

- * LangGraph

- * AI Agents

- * Multi-Agent Systems

- * Tool Calling

- * Function Calling

- * Model Context Protocol (MCP)

- * FastAPI

- * REST API Development

- * Authentication & JWT

- * React.js for AI Applications

- * Chat UI Development

- * Streamlit

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- * Gradio
- * Docker
- * Kubernetes Basics
- * Cloud Deployment (AWS/Azure/GCP)

Last 15 Days - Advanced Generative AI Projects

- * Enterprise AI Chatbot using RAG
- * PDF Chat Application
- * AI Resume Analyzer
- * Voice AI Assistant (Speech-to-Text & Text-to-Speech)
- * Medical AI Assistant
- * Legal Document Analysis System
- * AI Code Generator & Debugger
- * Multimodal AI Application (Text + Image)
- * AI Email Automation System
- * AI Customer Support Agent
- * Research Paper Summarizer
- * Knowledge Management System
- * Autonomous AI Agent Workflow
- * Capstone Industry Project
- * Portfolio Development & Deployment

Career Preparation & Placement

- * System Design for AI Applications

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- * LLM Interview Questions
- * Python Coding Practice
- * GitHub Portfolio Development
- * Resume Building
- * LinkedIn Profile Optimization
- * Mock Technical Interviews
- * AI Coding Challenges
- * Open Source Contributions
- * Placement Assistance

(Click on Course for more details)

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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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