

Since 2007, Making IT Experts & Products

## Course: AI Agent 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 AI Agents

- \* What are AI Agents?
- \* Evolution of AI Agents
- \* Types of AI Agents
- \* AI Agent Architecture

### Python for AI Development

- \* Python Fundamentals
- \* Virtual Environments
- \* API Integration
- \* JSON & File Handling

### OpenAI API Development

- \* OpenAI Models
- \* Chat Completions API
- \* Responses API
- \* Function Calling
- \* Structured Outputs

### Prompt Engineering

- \* Prompt Design
- \* Few-shot Prompting
- \* Chain of Thought
- \* Prompt Optimization

### LangChain Essentials

- \* Prompt Templates

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- \* Chains
- \* Memory
- \* Tools & Agents

## LangGraph Development

- \* Graph-Based Workflows
- \* State Management
- \* Conditional Routing
- \* Human-in-the-Loop
- \* Agent Orchestration

## Model Context Protocol (MCP)

- \* Introduction to MCP
- \* MCP Architecture
- \* MCP Clients & Servers
- \* Tool Integration
- \* Secure Context Sharing

## RAG & Vector Databases

- \* Embeddings
- \* FAISS
- \* ChromaDB
- \* Semantic Search
- \* Document Retrieval

## Multi-Agent Systems

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- \* Agent Collaboration
- \* Task Delegation
- \* Supervisor Agents
- \* Workflow Automation

## AI Agent Deployment

- \* FastAPI
- \* Docker
- \* Cloud Deployment
- \* Monitoring & Logging

## Real-World Projects

- \* AI Customer Support Agent
- \* Document Intelligence Agent
- \* Research Assistant
- \* Coding Assistant
- \* Enterprise AI Agent

(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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