

**2-weeks Online Live**

**FDP | Industrial Training | Internship cum Training on**

## **Agentic AI: Building Autonomous AI Agents**

**Duration:** 20-Hrs (10-days)

**Prerequisite:** There is No prerequisite for this Training

### **10-Day Agentic AI Training Program Outline**

#### **◆ Day 1: Introduction to Agentic AI & Core Technologies**

**Objective:** Build foundational understanding of AI agents and their ecosystem.

- Introduction and Overview
- What are AI Agents? A quick overview
- What are LLMs? (ChatGPT, Claude, Gemini, LLaMA, Mistral)
- What is Function Calling in LLMs?
- Vector Databases, Embedding Models & Retrieval-Augmented Generation (RAG)
- Tools Overview: Autogen, LangChain, LangGraph, CrewAI
- What is an API? How Agents use APIs
- Recap: What You Have Learned So Far

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#### **◆ Day 2: Setting Up Your Development Environment**

**Objective:** Get hands-on with Flowise and prepare for building agents.

- What Will You Learn in This Section?
- Installing Node.js and setting up Flowise locally
- Running Flowise via Command Prompt
- Troubleshooting common Flowise installation issues
- Exploring the Flowise Interface: LangChain/LangGraph made easy

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#### **◆ Day 3: Your First AI Agents (Beginner Level)**

**Objective:** Build your first few simple agents with real functions.

- Our First AI Agent: Boss, Creative Writer & Title Generator
- AI Agent #2: Social Media Strategy Agent with Prompt Engineering
- AI Agent #3: Lead Research + Personal Email Writer (Function Calling)



- Summary of Key Concepts Covered So Far
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#### 🔗 Day 4: Advanced Agent Functions with Tool Use

**Objective:** Expand capabilities by integrating advanced tools and logic.

- AI Agent #4: Function Calling with Python Interpreter + Local Text Storage
  - Tool integration: Calculator, note-taking, command execution
  - Testing & refining agent responses
  - Review and Troubleshooting
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#### 🔗 Day 5: Building Agents with RAG and Custom Knowledge

**Objective:** Teach agents to work with your data and perform contextual tasks.

- Applications of AI Agents in Business
  - RAG Concepts Recap + Practical Examples
  - Building agents using vector databases and file ingestion
  - Summary: How RAG makes agents smarter
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#### 🔗 Day 6: Hosting & Web Integration

**Objective:** Deploy agents as web tools or apps for clients or internal use.

- External Hosting on Render (or similar platforms)
  - Embedding agents in websites (iframes, APIs)
  - Making standalone apps visually appealing and interactive
  - Branding, styles, and chatbot UI tips
  - Enhancing with audio, links, and lead capture
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#### 🔗 Day 7: Creating Your Own Copilot-Style Assistant

**Objective:** Develop a productivity-focused AI assistant with custom code.

- Overview of the Python code (GitHub walkthrough)
  - Installing VS Code and Git for project management
  - Project: Copilot-like AI with vision & task execution
  - Security tips, prompts, voice options
  - Desktop recording tools and automation
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#### 🔗 Day 8: Building Private, Open-Source AI Agents

**Objective:** Use open-source LLMs for privacy-first AI applications.



- Pros & Cons of Open-Source LLMs (Llama3.1, Mistral, etc.)
  - Installing Ollama and running LLMs locally
  - Building with Flowise + Llama 3.1: Local agent demo
  - Advanced agent: Email automation with open-source LLM
  - Fast inference with Groq API
  - Comparison: DeepSeek vs. OpenAI
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### 🔗 Day 9: Selling AI Agents as Products

**Objective:** Learn to market, monetize, and support your AI agents.

- How to create a productized AI agent
  - Customer acquisition and offer design
  - Hosting for clients vs. standalone apps
  - Warranty, support, and post-sale experience
  - Summary of Go-To-Market checklist
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### 🔗 Day 10: Ethics, Security & Legal Concerns

**Objective:** Understand the risks and responsibilities of AI agent development.

- Jailbreaks: How LLMs can be manipulated
- Prompt injections & security vulnerabilities
- Data poisoning and backdoor attacks
- Copyrights and ownership of AI-generated content
- Best practices for safe and ethical AI deployment
- Final recap

### Training Hands on Projects

- Creating your first AI Agent
- AI Agent for Social Media Strategy & Prompt Engineering
- AI Agent for Lead Research on the Web & Personal Emails
- AI Agent for Python Interpreter, Calculator & Local Text Storage
- Advanced AI Agents: RAG, Custom Tools & Action in Apps
- Selling AI Agents: Marketing, Customer Acquisition, Offer, Sales & Warranty
- Creating your own AI Assistant, Similar to Microsoft Copilot
- AI Agents with Open-Source LLMs: Private AI on your PC
- Advanced Open-Source AI Agent: Responding to Emails



## Training Highlights

- 20+ Hours live online Hands-on based learning with Projects.
- **Training includes:** Soft copy of Training material, Training PPT's, Project code & Training Recording.
- 2-weeks **Certificate of completion** in association with **Mechanica IIT Madras**

## Who can attend?

- Training is best suitable for Engineering college faculty, Research scholar, Student & Working IT Professional.

## To Know More & Register Now:

<https://www.eduxlabs.com/agent-ai>

## EduxLabs Teams

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