EDUXLABS
edu's Xpert (Esoir Solution)

FDP | Short-Training on

Agentic AI: Building Autonomous AI Agents

Agentic AI Training Program Outline

🔻 Module 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

🔻 Module 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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🔻 Module 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

🔻 Module 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

🔻 Module 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

🔻 Module 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

🔻 Module 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

🔻 Module 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

🔻 Module 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

🔻 Module 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

Who can attend?

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

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✓ Training Highlights

- Learn with an **Industry Expert** having strong real-world experience
- **Complete Hands-on Based Training** with practical implementation
- **Certificate of Completion** from **Eduxlabs**

Benefits for Hosting Institution

- An expert trainer will visit and conduct the sessions
- **Promotional support** will be provided
- **Certificate of completion** for each attendee

Requirements for Hosting Institutions

- Seminar Hall / Computer Lab with enough capacity for all participants
- Projector / Screen along with Whiteboard for teaching & presentation
- Minimum **60 participants** required to organize this training
- Accommodation for **one training expert**

Training Fee

Total Fee:

- **One-week Offline Training Fee: ₹ 4000/- per attendee**
- **Online Training Fee: ₹ 3500/- per attendee**

EduxLabs Teams
(Esoir Business Solutions Gurugram)
M: +91- 8318635606 | 7053133032

Email info@eduxlabs.com | www.eduxlabs.com