

# Agentic AI Training for Tech



## Course Highlights



**28-Hour LIVE**  
Instructor-Led  
Training



Practical  
Applications



Hands-on  
Labs



Advanced  
Tools



Capstone  
Project



Certified  
Experts



Career Guidance  
and Mentorship



Dedicated  
Telegram Support  
Group



Access to  
Recorded Sessions

## About Course

The Agentic AI for Tech program by InfosecTrain is an advanced Agentic AI Training designed for AI/ML engineers, developers, data scientists, cybersecurity professionals, and tech leads. This Applied Agentic AI Course teaches participants how to design, build, and deploy autonomous AI systems that can plan, reason, and act independently in real-world scenarios.

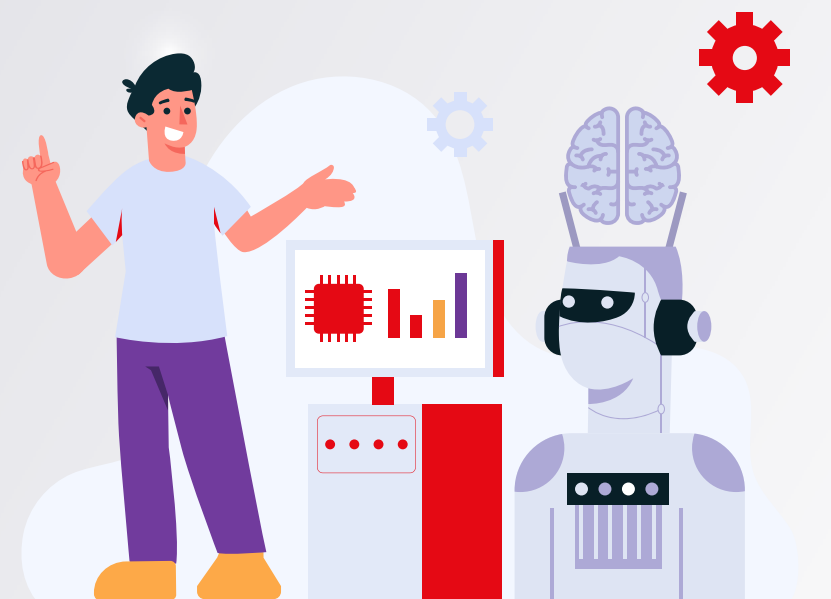
Participants will gain hands-on experience with AI agents, multi-agent collaboration, API integration, memory management, and workflow automation using frameworks like LangChain, AutoGPT, and CrewAI. By the end of this AI Automation Training, learners will have portfolio-ready projects demonstrating practical Agentic AI in Technology, ready for enterprise deployment and career advancement. This Next-Gen AI Learning Program equips professionals to implement AI-powered workflows, optimize multi-agent systems, and apply best practices in secure and responsible AI development.



## Course Objectives

Upon successful completion of the training, participants will be able to:

- ✓ Understand the principles of Agentic AI and how it differs from conventional AI
- ✓ Design and implement autonomous AI agents using LLMs and frameworks like LangChain and AutoGPT
- ✓ Build multi-agent systems and orchestrate complex workflows
- ✓ Connect AI agents to APIs, tools, and enterprise applications
- ✓ Deploy AI agents safely and responsibly with consideration for ethics, security, and governance
- ✓ Develop a capstone project demonstrating an end-to-end AI agent solution



## Target Audience

This training is ideal for:

- ✓ AI/ML Engineers and Developers
- ✓ Data Scientists
- ✓ Cybersecurity Professionals exploring AI automation
- ✓ Product Managers and Tech Leads interested in AI-powered workflows

## Pre-Requisites

- ✓ Proficiency in Python (variables, functions, loops, libraries)
- ✓ Understanding of AI/ML fundamentals, including LLMs, training vs. inference, and basic neural networks
- ✓ Familiarity with APIs, tools, and automation workflows

# Course Content

## Module 1: Introduction to Agentic AI

- ✓ Difference between traditional AI and agentic AI
- ✓ Core building blocks: LLMs, memory management, tool integration, autonomous actions
- ✓ Exploration of leading frameworks: LangChain, AutoGPT, CrewAI
- ✓ Real-world applications: cybersecurity, business automation, and data workflows

### Hands-On Lab

Build a simple AI agent that answers queries and retains memory



## Module 2: Designing AI Agents

- ✔ Stepwise agent workflow: perception reasoning action
- ✔ Integrating agents with APIs, tools, and external data sources
- ✔ Multi-step reasoning, context awareness, and prompt engineering best practices

### Hands-On Lab

Create an AI agent that performs automated web research and produces structured summaries

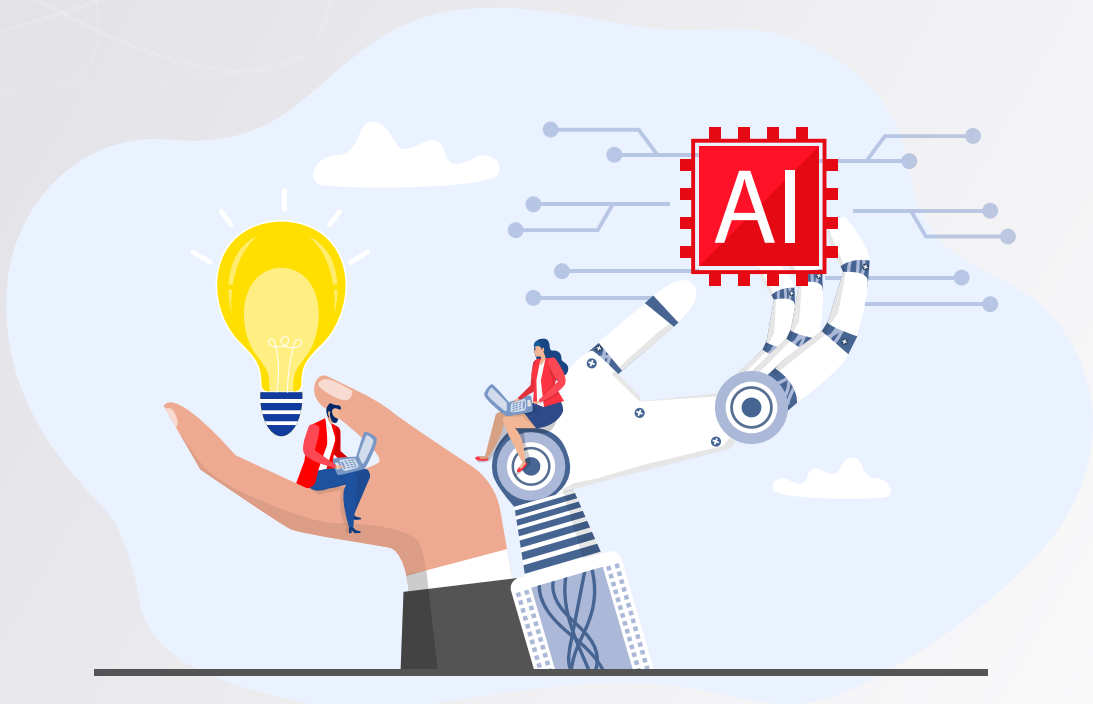


## Module 3: Advanced Agentic Workflows

- ✓ Multi-agent systems: collaboration and task orchestration
- ✓ Memory and context management for complex agents
- ✓ Low-code/no-code platforms for rapid agent development
- ✓ Industry case studies: finance assistants, BI dashboards, cybersecurity automation

### Hands-On Lab

Build a multi-agent setup for automated data collection, analysis, and reporting

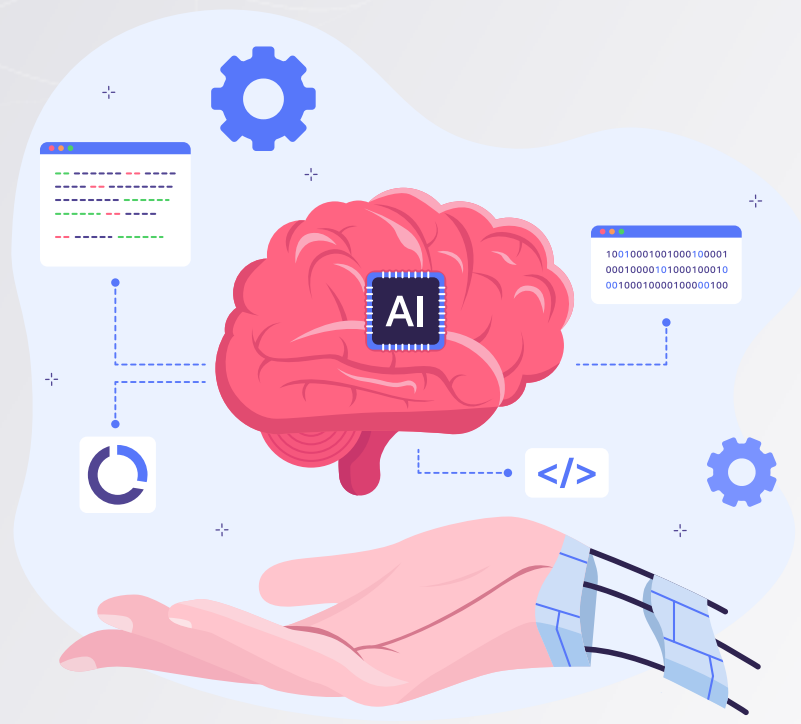


## Module 4: Deployment, Security & Ethics

- ✔ Deployment strategies: local, cloud, and enterprise environments
- ✔ Monitoring, logging, and performance management
- ✔ Risk assessment: autonomy, unintended actions, bias, and privacy considerations
- ✔ Governance and compliance for responsible AI use

### Hands-On Lab

Deploy a mini AI agent to perform automated web research, summarization, or workflow tasks



## Module 5: Optimization & Scalability

- ✔ Optimizing agentic workflows for speed and efficiency
- ✔ Scaling multi-agent systems for enterprise use
- ✔ Error handling, task prioritization, and robust agent management

### Hands-On Exercise

Optimize deployed AI agents for multi-step workflows



## Module 6: Capstone Project

- ✔ Design and implement an end-to-end AI agent system
- ✔ Integrate multi-agent collaboration, API connections, and automated workflows
- ✔ Include deployment with monitoring, logging, and performance tracking

### Outcome

Portfolio-ready project demonstrating complete agentic AI solution





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