

Enterprise Agentic AI: Copilot Studio & LangChain

40 Hours

DURATION

5

MODULES

19

TOPICS

4

HANDS-ON ACTIVITIES

COURSE OVERVIEW

This advanced course offers a comprehensive journey through the design, deployment, and governance of generative and agentic AI systems in enterprise environments. Beginning with foundational concepts and strategic adoption frameworks, learners explore Copilot Studio and agentic architectures like LangChain, AutoGen, and CrewAI. Through hands-on labs and case studies, participants build chatbots, orchestrate multi-agent workflows, and integrate AI with Microsoft services such as Azure, SharePoint, and Power Platform. The curriculum emphasizes responsible AI principles, optimization techniques, and governance best practices, culminating in a capstone project where learners develop and present a fully integrated, enterprise-ready AI solution.

PREREQUISITES

- Basic understanding of AI and machine learning concepts, including generative AI and LLMs
- Familiarity with Microsoft 365 and Power Platform, especially Power Automate, Power Apps, and Microsoft Teams
- Working knowledge of Copilot Studio including bot creation and publishing
- Experience with cloud platforms, particularly Azure services such as Azure OpenAI, Logic Apps, and Azure Functions
- Introductory scripting proficiency in JavaScript or Python, and comfort with JSON, REST APIs, and adaptive cards
- Exposure to agentic frameworks (e.g., LangChain, AutoGen, CrewAI) is helpful but not mandatory
- Basic understanding of web technologies (e.g., Node.js, SharePoint integration)
- Familiarity with prompt engineering and LLM-based application design is advantageous

TOOLS AND REQUIREMENTS

- The students need to have their own subscription access for Google Vertex AI and Microsoft Azure to perform Labs.

What You Will Learn

- Explain generative and agentic AI concepts for enterprise use
- Compare Copilot Studio with agentic frameworks like LangChain
- Build chatbots and reasoning agents using Copilot Studio
- Design multi-agent workflows with shared objectives and roles
- Integrate agents with Azure, SharePoint and Power Platform services
- Apply prompt engineering and model tuning with Azure OpenAI
- Apply responsible AI and governance principles to agent systems
- Develop a fully integrated enterprise-ready agentic AI solution

COURSE SYLLABUS

5 Modules, 19 Topics

01

Hands-on Lab

Foundations of Generative and Agentic AI

TOPICS

- Overview of Generative AI and agentic AI in the enterprise
- Strategic adoption, change management, and leadership in AI transformation
- **Architecture, core principles:** Copilot Studio and Agentic frameworks (LangChain, AutoGen, CrewAI)
- Setting up Copilot Studio and agentic systems, comparing capabilities

02

Hands-on Lab

Workflow, Collaboration, and Customisation

TOPICS

- Designing multi-step workflow triggers, agent-based team systems, and shared objectives
- Creating agents for system implementation, role assignment, coordination
- Expanding Copilot Studio/Agentic system with plugins, adaptive cards, connectors
- **Case Study:** AI agents in business automation (HR/finance/project tasks)

03

Hands-on Lab

Cloud Integrations, Hybrid Systems, and Deployment

TOPICS

- Integrating agents with Azure, Node.js, SharePoint, and other Microsoft services
- **Hybrid frameworks:** Copilot Studio + LangChain/AutoGen for orchestration
- Prompt engineering, AI model tuning with Azure OpenAI, Gemini API, Ollama, Hugging Face
- Tool integration, cost implications, infrastructure planning

04

Hands-on

Responsible AI, Governance, and Optimization

TOPICS

- Responsible and ethical AI principles, compliance, audit trails, governance
- Microsoft's Responsible AI framework and best practices for multi-agent governance
- Optimization techniques for agent coordination, memory and latency reduction, security guidelines
- **Advanced integrations:** Teams, Power BI, Dynamics 365
- **Benchmark/compare solutions:** Google Vertex AI, AWS Bedrock

05

Capstone Project, Evaluation, and Wrap-Up

TOPICS

- **Full capstone:** Build and demonstrate an enterprise-ready solution (conversational chatbot, agentic workflow, automation)
- Next steps for implementation and upskilling

HANDS-ON ACTIVITIES

Practise What You Learn

#	MODULE	ACTIVITY
01	Foundations of Generative and Agentic AI	Hands-on Lab: Build a simple FAQ chatbot and a reasoning agent using Copilot/Agentic framework
02	Workflow, Collaboration, and Customisation	Hands-on Lab: Design an automated workflow with multi-agent collaboration to achieve a shared objective
03	Cloud Integrations, Hybrid Systems, and Deployment	Hands-on Lab: Build a Copilot-powered website content generator and hybrid AI workflow using multiple frameworks

#	MODULE	ACTIVITY
04	Responsible AI, Governance, and Optimization	Hands-on: Design a multi-agent workflow managing real enterprise data with full platform integration (Copilot, Agentic frameworks)

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com

✉ info@koenig-solutions.com