

Agentic AI Hackathon

Course Overview

Duration - 8 Hours | Level - Advanced

The Agentic AI Hackathon is a hands-on, immersive learning experience focused on building intelligent multi-agent AI applications leveraging Azure AI Foundry, Azure OpenAI services, AutoGen Framework, Semantic Kernel, GitHub, and Visual Studio Code. Participants will gain practical expertise in developing and deploying AI-powered solutions, mastering skills such as AI agent customization, orchestration, and automation. This workshop equips developers with real-world capabilities to innovate and accelerate AI adoption using Azure AI and GitHub tools.

Course Modules

Project 1

Build and Deploy Azure AI Agents

Build a personalized AI agent web app

Modify agent persona, UI, and deploy via Visual Studio Code

Learn: AI agent logic, UI customization, GitHub Actions

Project 2

Build an end-to-end multi agents

Explore multi-agent workflows for task automation

Modify logic, create new tasks, simulate scenarios

Learn: Agent orchestration, system design

Project 3

Enable multi-agent interactions using agentic framework capabilities

Implement task routing across agents for problem solving

Customize workflows and agent coordination

Learn: Advanced agent logic, Azure AI integration

Project 4

Build a multi-agent presentation builder

Generate slide decks using AI agents based on topics

Modify templates, slide logic, and deploy

Learn: Prompt engineering, content generation, automation