

## Implement with impact Agentic AI Hackathon

### Course Overview

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.



**Level - Intermediate**



**Duration - 10 Hours**

## Course Modules

### Day 1

#### **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 agent**

Explore multi-agent workflows for task automation

Modify logic, create new tasks, simulate scenarios

Learn: Agent orchestration, system design

## **Entry Requirements**

GitHub account.

Active Azure subscription (provided during Hackathon).

Familiarity with Python, JavaScript/TypeScript and React.

Azure Developer CLI and terminal usage (recommended).

Laptop or browser-based device.

## **Day 2**

### **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

### **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

## **What You'll Learn**

Core concepts of Agentic AI and multi-agent collaboration

Implementing AI agents using Semantic Kernel SDK and AutoGen Framework

Designing and orchestrating AI workflows, tools, and plans Customizing agent behavior, logic, and multi-agent interactions

Integrating AI agents with real-world applications (chat, presentations, automation)

Deploying AI solutions using Azure AI Foundry