

DW-104 - Build and extend your own agents using pro-code capabilities

Duration 12 hrs

Agenda:

- Extend Microsoft 365 Copilot with declarative agents
- The Copilot Stack
- Microsoft 365 Copilot - extensibility options
 - Declarative agents
 - Custom engine agents
- Building declarative agents using natural language coding approach
- Building declarative agents using Teams Toolkit for Visual Studio
- Adding skills with plugins
- Extending Copilot's knowledge through Microsoft Graph connectors
- Building your own agents using Copilot Studio (natural language coding approach)
- **Build custom engine agents with Teams AI and Microsoft 365 Agents SDK**
 - Developing agents on your custom engine using Teams AI Library
 - Developing agents using Microsoft 365 Agents SDK

Course Plan and Learning Objectives

Day 1 Extend Microsoft 365 Copilot and develop custom engine agents	Day 2 Develop your own agents with Azure AI Foundry	Day 3 Build your own multi agents with Semantic Kernel or AutoGen and implement security and governance
<p>Module 1 Extend Microsoft 365 Copilot with declarative agents The Copilot Stack Microsoft 365 Copilot - extensibility options</p> <ul style="list-style-type: none">◦ Declarative agents◦ Custom engine agents <p>Building declarative agents using natural language coding approach Building declarative agents using Teams Toolkit for Visual Studio Adding skills with plugins Extending Copilot's knowledge through Microsoft Graph connectors Building your own agents using Copilot Studio (natural language coding approach)</p> <p>Module 2 Build custom engine agents with Teams AI library and Microsoft 365 Agents SDK Developing agents on your custom engine using Teams AI Library Developing agents using Microsoft 365 Agents SDK</p> <p>Hands on Labs Streamlining IT Support Operations with Autonomous Copilot Agent using Copilot Studio Build a declarative agent for Microsoft 365 Copilot using Teams Toolkit Build your first custom Microsoft Graph connector</p>	<p>Module 3 Develop your own agents with Azure AI Foundry Understanding Azure AI Foundry and Azure AI Foundry SDK Develop AI agents with Azure AI Agent Service in Azure AI Foundry Explore and deploy models from the model catalog in Azure AI Foundry portal Getting started with prompt flow in the Azure AI Foundry Implementing Retrieval Augmented Generation (RAG) Fine-tuning in Azure AI Foundry Understanding Synthetic data generation and Distillation Understanding Retrieval-Augmented Fine-Tuning Evaluate the performance of your custom agent in Azure AI Foundry</p> <p>Hands on Labs Build, evaluate and deploy a RAG-based agent with the prompt flow in Azure AI Foundry</p>	<p>Module 4 Build your own multi agents with Semantic Kernel or AutoGen Understanding Semantic Kernel Adding AI services to Semantic Kernel What are Filters and Semantic Kernel Vector Store connectors? Prompt Engineering with Semantic Kernel Create plugins for Semantic Kernel Semantic Kernel Frameworks AutoGen Framework</p> <p>Module 5 Secure and govern copilots and agents Securing and governing copilots with Microsoft Security Implementing Responsible AI, Trustworthy AI and AI Safety</p> <p>Hands on Labs Build a custom engine agent to chat with your data using Teams AI library and Teams Toolkit Creating a Custom AI Agent with Azure AI Foundry and Search Integration Develop a Contoso AI Travel Agent with Azure OpenAI and the Semantic Kernel SDK</p>