

Agentic AI Accelerator

Course Overview

Duration - 20 Hours | Level - Advanced

This is a comprehensive learning journey designed to rapidly equip professionals with the skills needed to effectively build, demonstrate, and deploy powerful AI-driven agents. From presales essentials using Microsoft Copilot Studio and SharePoint agents to advanced multi-agent development leveraging Azure AI Foundry, AutoGen, Semantic Kernel, and Microsoft Teams SDK, participants will progressively gain deep, practical insights. Attend this workshop to master key AI concepts, accelerate your organization's AI capabilities, and confidently architect, deploy, and scale sophisticated AI agent solutions.

Course Modules

Day 1 - Showcasing AI Potential with Agentic AI

Module 1: Innovate with Microsoft 365 Copilot and agents

M365 Copilot and agents

How Copilot works

Semantic index for Copilot

M365 Copilot Chat

Agents Use cases

New agents in Microsoft 365

Unlock more value with SharePoint agents

Module 2: Extend Microsoft 365 Copilot with Agents

Microsoft 365 Extensibility Planning and approach

Declarative agents and agent tooling

Explore Copilot Studio Agent Builder

Build declarative agents with Microsoft 365 Agents Toolkit

Train Copilot with Copilot Tuning

Build custom agents with Copilot Studio

Autonomous agents overview

Agent Governance - Overview

Gen-AI decision guide – when to build, buy or extend

Hands-on Labs

Explore Copilot Studio Agent Builder

Build HR Assistant Agent with Copilot Studio

Incorporate actions in HR Agent

Enable Autonomous Capabilities in Microsoft Copilot Studio for HR Activities

Day 2 - Architecting Success with Multi-Agent AI Systems

Module 3: Customize Agents with Gen AI in Copilot Studio

Customizing your agents – Orchestrator, UI, Knowledge, Actions, Autonomy

Copilot Studio implementation guidance for architects

Generative AI in Copilot Studio

Copilot Studio + Power Platform

Building voice-enabled agents

AI Foundry integration

Developing agents using Microsoft 365 Agents SDK

Module 4: Innovate with Azure AI Platform

How language models work

AI Foundry and SDK introduction

AI Foundry Model Catalog

Azure AI Services

Azure OpenAI Service and model guidance

Models-as-a-Service

Azure AI Foundry Agent Service

Safeguard with Trustworthy AI

Hands-on Labs

Setup AI Project and perform Chat Completion from VS Code

Build a simple AI Agent

Develop a multi-agent system

Day 3 - Multi-Agent AI: Advanced Agent Dev in Azure AI Foundry

Module 5: Customize, orchestrate and experiment with Azure AI Foundry

Retrieval Augmented Generation (RAG)

Customizing models – Fine tuning, distillation

Responses API (preview)

Azure AI Foundry Agent Service - Orchestrate and debug AI workflows

Module 6: Build your own multi agents with Semantic Kernel or AutoGen

Multi-agent applications

Understanding Semantic Kernel

Understanding AutoGen Agents Framework

Multi-Agent Collaboration & Orchestration with AutoGen / Semantic Kernel

Hands-on Labs

Set Up Azure AI Foundry SDK and Provision Resources

Build a Retrieval-Augmented Generation(RAG) Pipeline

Evaluate and Optimize RAG Performance

Semantic Kernel Fundamentals

Semantic Kernel Plugins

Day 4 - Enterprise Grade: Optimization and production at scale

Module 7: Enterprise grade production at scale

Scaling challenges and agent controls

Manage AI performance in production

Observability Tools

Enabling Enterprise governance and management

Enterprise grade security and data protection

Monitoring and observability

Module 8: Advanced AI risk evaluation and mitigation

Identifying risks

Azure AI Content Safety

Evaluation and GenAIOps

Identity and access management

Network Security for AI apps

Continuous security for AI

Hands-on Labs

Understanding the Lifecycle of Flow Development

Building and Customizing Prompt Flows

Evaluation Flow Setup

Fine-Tuning Prompts for Optimal Performance

Implementing Chat Flow and Tool Integration

Ensuring Responsible AI Practices with Content Safety