

ChatGPT Copilots with Azure OpenAI & Semantic Kernel

Course Duration: 08 hours (01 day)

Note:

To complete the hands-on labs in this course, students require an Azure subscription that has been approved for access to the Azure OpenAI service. **Except Module 02 & Module 03, other labs can also be completed with OpenAI API key.**

Azure OpenAI: <https://learn.microsoft.com/legal/cognitive-services/openai/limited-access>.

OpenAI API key: <https://platform.openai.com/account/billing/overview>

Pre-requisites:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python.
- Python Check: <https://learn.microsoft.com/en-us/training/paths/beginner-python/>
- C# Check: <https://learn.microsoft.com/en-us/training/paths/get-started-c-sharp-part-1/>

Module 01: Introduction to Azure OpenAI

- Azure OpenAI's language, code, and image capabilities
- Azure OpenAI's responsible AI practices and limited access policies
- Types of Azure OpenAI's base model and its deployment
- Lab: Creation of Azure OpenAI resource/OpenAI & accessing Playground

Module 02: ChatGPT Copilot using Azure OpenAI Studio

- Brief Introduction to Azure Storage Account, Azure Cognitive Search, App Services and App Service Plans
- Basic workflow for Copilot Creation
- Lab: Build your own ChatGPT Copilot using various Azure Services

Module 03: Prompt Flow Design using Azure Machine Learning Studio

- Introduction to Azure Machine Learning Studio
- Introduction to Prompt flow
- Lab: Prompt flow design and implementation

Module 04: Introduction to Semantic Kernel

- Introduction to Semantic Kernel
- Working and Components of Semantic Kernel

- Integrating SK with Azure OpenAI/OpenAI models
- Lab: Basic Labs on Semantic Functions, Native Functions, Chaining Functions using Azure OpenAI/ OpenAI



Module 05: ChatGPT Copilot using Semantic Kernel

- Lab: Simple Chat Summary App
- Lab: Book Creator App
- Lab: GitHub Repo Q&A Bot
- Lab: Chat Copilot App

