

Build a copilot app in a day with Azure OpenAI

Course Duration: 16 hours (2 days)

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. [Azure OpenAI: https://learn.microsoft.com/legal/cognitive-services/openai/limited-access](https://learn.microsoft.com/legal/cognitive-services/openai/limited-access)

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: Chat Copilot using Azure OpenAI Studio

- Brief of Azure Storage Account, Azure Cognitive Search, App Services & App Service Plans
 - Basic workflow for Copilot Creation
 - Lab: Build your own Chat Copilot using various Azure Services (Azure Portal)
- =====

Module 03: Art of Effective Prompting Techniques

- Understanding Text Prompting
- Iterative Techniques for Text Prompting
- Using Summarization Techniques
- Inference Techniques in Text Prompting
- Transformation Techniques for Text
- Exercise/Documentation: Effective Prompting Techniques (Jupyter notebook)

Module 04: 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 05: Introduction to Semantic Kernel

- Introduction to Semantic Kernel
 - Working and Components of Semantic Kernel
 - Concept of Chat Plugin & its Integration into Applications
 - Integrating Semantic Kernel with Azure OpenAI models
 - Introduction to Autogen in Semantic Kernel
 - Native Functions
 - Chaining Functions using Azure OpenAI
 - Lab: Basic Labs on Semantic Functions
 - Lab: Adding skillsets to Semantic Kernel
 - Lab: Adding memories to Semantic Kernel
 - Lab: Using connectors in Semantic Kernel
 - Lab: Chaining concept in Semantic Kernel
 - Lab: Integrating Bing with Azure OpenAI using Semantic Kernel
-