

SAIL SMOOTH IN TECH OCEAN

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Copilot App using Azure Al Studio

Course Objective: To leverage Azure OpenAl's capabilities for language coding, image generation, and responsible Al practices. Through hands-on labs, the course covers Azure OpenAl Studio Playground, Web Chat Copilot App development using Azure Al Studio, Assistant API and Semantic Kernel, an open-source SDK to create copilot apps using LLMs.

Exam: No

Course Vendor: Microsoft (Unofficial)

Lab/Exercise: Yes

Note: To complete the hands-on labs in this course, students require an Azure subscription that has been approved for access to the Azure OpenAl service.

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

Pre-requisites:

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

Why Enroll?

- Hands-On Learning: Dive deep into practical, real-world projects.
- Expert Guidance: Learn from industry experts and seasoned developers.

- Cutting-Edge Technology: Get up to speed with the latest in Al and machine learning using Azure Al Studio.
- Community Support: Join a vibrant community of like-minded professionals.

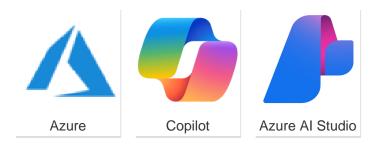
What You'll Learn:

- Azure Al Studio: Master the tools and features of Azure Al Studio to create and deploy Al solutions efficiently.
- Semantic Kernel: Understand and implement semantic algorithms for intelligent and context-aware applications.
- Copilot App Development: Gain the skills to build, train, and deploy your own
 Copilot apps that can assist and automate tasks.

Who Should Enroll?

- Developers eager to integrate AI into their applications.
- Al enthusiasts looking to expand their toolkit with Azure's powerful features.
- IT professionals aiming to stay ahead in the rapidly evolving tech landscape.
- Anyone passionate about AI and its transformative potential.

Tech Stack To Be Covered



Module 01: Building NLP solutions using Azure Al Studio

- Azure OpenAl's base model and its deployment
- Lab: Generate text with Azure OpenAl Service (SDK)

• Lab: Generate code with Azure OpenAl Service (SDK)

Module 02: Chat Copilot using Azure Al Studio

- Overview of Azure Al Studio
- Workflow for Building Chat Copilot using Azure Al Studio
- Azure OpenAl with Assistants API
- Lab: Build your own Chat Copilot using your own data (Azure Al Studio)
- Lab: Build your own Chat Copilot using your own data (Assistants API)

Module 03: Introduction to Prompt Flow Design

- Prompt flow Overview
- Develop Prompt flows
- Evaluate Prompt flows
- Lab: Prompt flow design using templates (Standard flow, Chat flow & Evaluation flow)

Module 04: Create Al Agents & Al memories using Semantic Kernel

- Initialize the kernel
- Give your agent skills with plugin
- Improve automation with planners
- Understanding embeddings
- Store context in vector databases
- Responsible Al using Semantic Kernel
- The Schillace Law's
- Hands-on/Lab: Create Al Agents using Semantic Kernel

Module 05: Hands-on Implementation using Semantic Kernel SDK

- Lab: Basic Labs on Semantic Functions
- Lab: Adding plugins 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 OpenAl using Semantic Kernel

Module 06: Demo Project on Semantic Kernel in a box

- Solution Architecture of semantic kernel in a box
- Demo working project on semantic kernel in a box