DEVELOP GENERATIVE AI SOLUTIONS USING AZURE OPENAI AND THE SEMANTIC KERNEL SDK (AZ-2005)

Course Code: 834056

Develop AI agents using Azure OpenAI and the Semantic Kernel SDK

Learn how to use the Semantic Kernel SDK to build intelligent applications that automate tasks and perform natural language processing.

What You'll Learn

Students will Learn to,

- Build your kernel
- Create plugins for semantic kernel
- Give your AI agent skills
- Use intelligent planners
- Guided project - Create an AI travel agent

Who Needs to Attend

Students willing to develop AI agents using Azure open AI and the Semantic Kernel SDK.

Prerequisites

- Experience programming in C#.
- Visual Studio Code IDE installed.
- Familiarity with Azure and the Azure portal.
- Access to Azure OpenAI Services.

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CLASSROOM LIVE	$675 CAD	1 Day

Classroom Live Outline

Module 1: Build your kernel

- Understand the purpose of Semantic Kernel.
- Understand prompting basics.
- Learn techniques for more effective prompts.

Module 2: Create plugins for semantic kernel

- Understand the purpose of Semantic Kernel plugins
- Learn how to use premade plugins
- Learn how to create your own plugins

Module 3: Give your AI agent skills

- Understand native functions in the Semantic Kernel SDK.
- Learn how to create native function plugins.
- Learn how to combine prompts with native functions.

Module 4: Use intelligent planners

- Understand planners in the Semantic Kernel SDK.
- Learn how to use planners to automate function calls.
- Learn how to optimize planners.
- Learn how to use Semantic Kernel SDK to automatically invoke functions.

Module 5: Guided project - Create an AI travel agent

- Create plugins for the Semantic Kernel.
- Create prompts to elicit the best responses from the large language model (LLM).
- Manipulate LLM responses to guide the execution of code.
- Automatically invoke the correct plugins to complete tasks.

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VIRTUAL CLASSROOM LIVE	$675 CAD	1 Day

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Aug 11 - 11, 2025 | 9:00 AM - 5:00 PM EDT

Oct 13 - 13, 2025 | 9:00 AM - 5:00 PM EDT

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PRIVATE GROUP TRAINING	1 Day

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