

AI-3016: Develop generative AI apps in Azure

Course Description

Generative Artificial Intelligence (AI) is becoming more accessible through easy-to-use platforms like Azure AI Studio. Learn how to build generative AI applications like custom copilots that use language models and prompt flow to provide value to your users.

Course Duration

1 day

Prerequisites

Before starting this module, you should be familiar with fundamental AI concepts and services in Azure.

Course Outline

1 - Plan and prepare to develop AI solutions on Azure

- What is AI?
- Foundry Tools
- Microsoft Foundry
- Developer tools and SDKs
- Responsible AI
- Module assessment

2 - Choose and deploy models from the model catalog in Microsoft Foundry portal

- Explore the model catalog
- Deploy a model to an endpoint
- Optimize model performance
- Module assessment

3 - Develop an AI app with the Microsoft Foundry SDK

- What is the Microsoft Foundry SDK?
- Work with project connections
- Create a chat client
- Module assessment

4 - Get started with prompt flow to develop language model apps in the Microsoft Foundry

- Understand the development lifecycle of a large language model (LLM) app
- Understand core components and explore flow types
- Explore connections and runtimes
- Explore variants and monitoring options
- Module assessment

5 - Develop a RAG-based solution with your own data using Microsoft Foundry

- Understand how to ground your language model
- Make your data searchable
- Create a RAG-based client application
- Implement RAG in a prompt flow
- Module assessment

6 - Fine-tune a language model with Microsoft Foundry

- Understand when to fine-tune a language model
- Prepare your data to fine-tune a chat completion model
- Explore fine-tuning language models in Microsoft Foundry portal
- Module assessment

7 - Implement a responsible generative AI solution in Microsoft Foundry

- Plan a responsible generative AI solution
- Map potential harms
- Measure potential harms
- Mitigate potential harms
- Manage a responsible generative AI solution
- Module assessment

8 - Evaluate generative AI performance in Microsoft Foundry portal

- Assess the model performance
- Manually evaluate the performance of a model
- Automated evaluations
- Module assessment

Who Should Attend

- Data Scientist
- AI Engineer