

## Develop generative AI apps in Azure (AI-3016)

Duration: 1 Day    Course Code: M-AI3016

### Overview:

**Learn how to build generative AI applications like custom copilots that use language models and prompt flow to provide value to your users.**

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. AI Engineers, Data Scientists, students having knowledge in AI and willing to create custom copilots with Azure AI.

### Target Audience:

AI Engineers, Data Scientists, students having knowledge in AI and willing to create custom copilots with Azure AI.

### Objectives:

#### ■ Students will learn:

■ Plan and prepare to develop AI solutions on Azure Choose and deploy models from the model catalog in Azure AI Foundry portal Develop an AI app with the Azure AI Foundry SDK

■ Get started with prompt flow to develop language model apps in the Azure AI foundry

■ Develop a RAG-based solution with your own data using Azure AI Foundry Fine-tune a language model with Azure AI Foundry Implement a responsible generative AI solution in Azure AI Foundry Evaluate generative AI performance in Azure AI Foundry portal

## Content:

Module1: Plan and prepare to develop AI solutions on Azure

- What is AI?
- Azure AI services
- Azure AI Foundry
- Developer tools and SDKs
- Responsible AI
- Exercise - Prepare for an AI development project

Module 2: Choose and deploy models from the model catalog in Azure AI Foundry portalExplore the model catalog

- Deploy a model to an endpoint
- Optimize model performance
- Exercise - Explore, deploy, and chat with language models

Module 3 : Develop an AI app with the Azure AI Foundry SDK

- What is the Azure AI Foundry SDK?
- Work with project connections
- Create a chat client
- Exercise - Create a generative AI chat app

Module 4 : Get started with prompt flow to develop language model apps in the Azure AI FoundryUnderstand 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
- Exercise - Get started with prompt flow

Module 5: Develop a RAG-based solution with your own data using Azure AI FoundryUnderstand how to ground your

language model

- Make your data searchable
- Create a RAG-based client application
- Implement RAG in a prompt flow
- Exercise - Create a generative AI app that uses your own data

Module 6: Fine-tune a language model with Azure AI FoundryUnderstand when to fine-tune a language model

- Prepare your data to fine-tune a chat completion model
- Explore fine-tuning language models in Azure AI Foundry portal
- Exercise - Fine-tune a language model

Module 7: Implement a responsible generative AI solution in Azure AI Foundry

- Plan a responsible generative AI solution
- Map potential harms
- Measure potential harms
- Mitigate potential harms
- Manage a responsible generative AI solution
- Exercise - Apply content filters to prevent the output of harmful content

Module 8: Evaluate generative AI performance in Azure AI Foundry portal

- Assess the model performance
- Manually evaluate the performance of a model
- Automated evaluations
- Exercise - Evaluate generative AI model performance

## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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