

Develop Generative AI Solutions with Azure OpenAI Services (AI-050T00)

COURSE OVERVIEW

These models enable various natural language processing (NLP) solutions to understand, converse, and generate content. Users can access the service through REST APIs, SDKs, and Azure OpenAI Studio. In this course, you'll learn how to provision Azure OpenAI service, deploy models, and use them in generative AI applications.

WHO WILL BENEFIT FROM THIS COURSE?

The audience for this course includes software developers and data scientists who need to use large language models for generative AI. Some programming experience is recommended, but the course will be valuable to anyone seeking to understand how the Azure OpenAI service can be used to implement generative AI solutions.

PREREQUISITES

Before starting this learning path, you should already have:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python. If you have no previous programming experience, we recommend you complete the [Take your first steps with C#](#) or [Take your first steps with Python](#) learning path before taking this course.

COURSE OBJECTIVES

Students will learn to:

- Fundamentals of Azure OpenAI Service
- Get started with Azure OpenAI Service
- Build natural language solutions with Azure OpenAI Service
- Apply prompt engineering with Azure OpenAI Service

COURSE OUTLINE

Module 1: Fundamentals of Azure OpenAI Service

- Describe Azure OpenAI workloads and access the Azure OpenAI Service
- Understand generative AI models
- Understand Azure OpenAI's language, code, and image capabilities
- Understand Azure OpenAI's responsible AI practices and limited access policies

Module 2: Get started with Azure OpenAI Service

- Create an Azure OpenAI Service resource and understand types of Azure OpenAI base models.
- Use the Azure OpenAI Studio, console, or REST API to deploy a base model and test it in the Studio's playgrounds.
- Generate completions to prompts and begin to manage model parameters.



Module 3: Build natural language solutions with Azure OpenAI Service

- Integrate Azure OpenAI into your application
- Differentiate between different endpoints available to your application
- Generate completions to prompts using the REST API and language-specific SDKs

Module 4: Apply prompt engineering with Azure OpenAI Service

- Understand the concept of prompt engineering and its role in optimizing Azure OpenAI models' performance.
- Know how to design and optimize prompts to better utilize AI models.
- Include clear instructions, request output composition, and use contextual content to improve the quality of the model's responses.

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