AI-050T00: Develop Generative AI Solutions with Azure OpenAI Service

Microsoft Official Course (MOC)

Course

AI-050T00: Develop Generative AI Solutions with Azure OpenAI Service

(1 day)

3a Kypca (About this Course):

- 1 Day
- Instructor-led training
- Intermediate

- English

Generative AI is a fast-evolving field of artificial intelligence, and the Azure OpenAI service is subject to frequent changes. The course materials are maintained to reflect the latest version of the service at the time of writing.

Azure OpenAI Service provides access to OpenAI's powerful large language models such as GPT; the model behind the popular ChatGPT service. 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.

Цели – Какво ще научите (Course Goals/Skills Gained):

- Get started with Azure OpenAI Service
- Build natural language solutions with Azure OpenAI Service
- Apply prompt engineering with Azure OpenAI Service
- Generate code with Azure OpenAI Service
- Generate images with Azure OpenAI Service
- Use your own data with Azure OpenAI Service

Курсът е предназначен за (Audience):

- 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.

Формат на курса

Присъствен Курс

Онлайн (Live) Отдалечен

Език на курса: български (английски е наличен като опция)

Учебни Метериали: в електронен формат (Учебните материали са на английски), включени в цената с неограничен достъп.

Лабораторна среда: всеки курсист разполага със собствена лаб среда, където се провеждат упражненията, част от курса.

Видео Архив (24/7)

Сертификат за Завършен Курс

Продължителност

- 5 работен дни (09:00 — 17:00)

или

- **40 уч.ч. обучение (теория и практика) в извънработно време с продължителност 3 седмици**
- събота и неделя 10:00 — 14:00, 14:00 — 18:00, 18:00 — 22:00
- понеделник и сряда 19:00 — 23:00
- вторник и четвъртък 19:00 — 23:00

Плащане

Заявка за издаване на фактура се приема към момента на записването на съответния курс.

Фактура се издава в рамките на 7 дни от потвърждаване на плащането.

Предстоящи Курсове

май 4
4 май 2024 @ 10:00 - 26 май 2024 @ 14:00 EEST ↻

[Linux Professional Institute LPIC-1 prep for 101-500 and 102-500 (4 weeks)](#)

май 5
5 май 2024 @ 10:00 - 27 май 2024 @ 14:00 EEST ↻

[Linux Professional Institute LPIC-1 prep for 101-500 and 102-500 (4 weeks)](#)

май 6
6 май 2024 @ 09:00 - 9 май 2024 @ 17:00 EEST ↻

[AZ-800T00: Administering Windows Server Hybrid Core Infrastructure](#)

май 6
6 май 2024 @ 09:00 - 10 май 2024 @ 17:00 EEST ↻

[VMware Horizon: Deploy and Manage [V8.8]](#)

май 8
8 май 2024 @ 09:00 - 10 май 2024 @ 17:00 EEST ↻

[ITIL® 4 Strategist Direct Plan and Improve (DPI)](#)

[View Calendar](#)
За повече информация използвайте формата за контакт.

Ще се свържем с Вас за потвърждаване на датите.

Предпоставки (Изисквания) за Участие (Prerequisites):

- Knowledge of Microsoft Azure and ability to navigate the Azure portalKnowledge of either C#, Python, or JavaScript

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Course Content:

Module 1: Introduction to Azure OpenAI Service

Get to know the connection between artificial intelligence (AI), Responsible AI, and text, code, and image generation. Understand how you can use Azure OpenAI to build solutions against AI models within Azure.

- Introduction
- What is generative AI
- Describe Azure OpenAI
- How to use Azure OpenAI
- Understand OpenAI's natural language capabilities
- Understand OpenAI code generation capabilities
- Understand OpenAI's image generation capabilities
- Describe Azure OpenAI's access and responsible AI policies
- Exercise – Explore Azure OpenAI Service
- Knowledge check
- Summary

In this module you'll learn how to:

- 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

This module provides engineers with the skills to begin building an Azure OpenAI Service solution.

  - Introduction
  - Access Azure OpenAI Service
  - Use Azure OpenAI Studio
  - Explore types of generative AI models
  - Deploy generative AI models
  - Use prompts to get completions from models
  - Test models in Azure OpenAI Studio's playgrounds
  - Exercise – Get started with Azure OpenAI Service
  - Knowledge check
  - Summary

By the end of this module, you'll be able to:

  - 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

This module provides engineers with the skills to begin building apps that integrate with the Azure OpenAI Service.

  - Introduction

- Integrate Azure OpenAI into your app
- Use Azure OpenAI REST API
- Use Azure OpenAI SDK
- Exercise — Integrate Azure OpenAI into your app
- Knowledge check
- Summary

By the end of this module, you'll be able to:

- 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

Prompt engineering in Azure OpenAI is a technique that involves designing prompts for natural language processing models. This process improves accuracy and relevancy in responses, optimizing the performance of the model.

- Introduction
- Understand prompt engineering
- Write more effective prompts
- Provide context to improve accuracy
- Exercise — Utilize prompt engineering in your application
- Knowledge check
- Summary

By the end of this module, you'll be able to:

- 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.