Course Code: HYDMSAI01

Course Title: Microsoft Azure Open AI

Description:

Azure OpenAI Workshop aims to help businesses unlock the benefits of AI and machine learning using Azure technologies. AI moves incredibly fast, take our workshop to ensure that you remain ahead of the curve and the competition with Generative AI.

Objectives:

In this course you will learn to use these models that perform a variety of natural language tasks, including but not limited to content generation, summarization, semantic search, and natural language to code translation. You will gain hands on learning in building simple API calls that can get you started with it in a matter of minutes!

Prerequisites:

Basic knowledge on Azure services

Duration:

12 Hrs

Topics:

Module 1: Introduction to Azure Open AI Service

- Introduction to OpenAI
- Azure OpenAI service
- Comparing Azure OpenAI and OpenAI
- Responsible AI
- Components and key concepts
- Azure OpenAI Service quotas and limits

Module 2: Using Azure OpenAI service models and key concepts

- Azure OpenAI Service models and model sets
- Legacy models
- ChatGPT models (gpt-35-turbo and GPT-4)
- GPT-4
- DALL-E (Preview)
- Embeddings models
- AOAI Text and Code models - Capabilities and use cases
- Finding the right model

Module 3: Understanding Prompt Engineering, content filtering and Embeddings

- Introduction to prompt engineering
- Prompt engineering techniques
- Introduction to Abuse monitoring and Content Filtering
- Understanding embeddings in Azure OpenAI Service
- Cosine similarity
- How to generate embeddings with Azure OpenAI
- Azure OpenAI on your data (preview)

Module 4: Work with text and code completion

- Generate or manipulate text using Completions endpoint
- Generating and manipulating code using Codex
- Customizing the model by preparing dataset
- Fine-tuning your model

Module 5: Security, high availability, monitoring and responsible AI

- Configuring Azure OpenAI Service with Managed Identities and Azure Cognitive Services virtual networks
- Manage quota
- Using Azure OpenAI with large datasets
- Azure OpenAI Service encryption of data at rest
- BCDR considerations with Azure OpenAI Service
- Monitoring Azure OpenAI Service
- Planning to manage costs for Azure OpenAI Service
- Responsible AI

Audience:

C-suite executives,department heads, stakeholders, or enterprise architects - this workshop is your chance to discover AI' s transformative power.

Certification:

AI-102: Microsoft Certified: Azure AI Engineer Associate