

AI-102: Designing and Implementing a Microsoft Azure AI Solution

Duration: 4 days

Day 01: Get started and develop decision support solutions with Azure AI Services

- Prepare to develop AI solutions on Azure
- Create and consume Azure AI services
- Use a REST API and an SDK
- Secure Azure AI services
- Implement network security
- Monitor Azure AI services
- Deploy Azure AI services in containers
- Classify and moderate text with Azure Content Moderator
- Make recommendations with Azure AI Personalizer
- Exercise - Use Azure AI services
- Exercise - Manage Azure AI Services Security
- Exercise - Monitor Azure AI services
- Exercise - Use a container
- Exercise - Test text moderation by using the API testing console
- Exercise: Use AI Personalizer with Visual Studio Code Notebooks to simulate a loop

Day 02: Create computer vision solutions with Azure AI Vision

- Analyze images
- Classify images
- Detect objects in images
- Detect, analyze, and recognize faces
- Read Text in images and documents with the Azure AI Vision Service
- Analyze video
- Exercise - Analyze images with Azure AI Vision
- Exercise - Classify images with Azure AI Custom Vision
- Exercise - Detect objects in images with Azure AI Custom Vision
- Exercise - Detect, analyze, and identify faces
- Exercise - Read text in images
- Exercise - Analyze video

Day 03: Develop natural language processing solutions with Azure AI Services

- Analyze text with Azure AI Language
- Build a question answering solution
- Build a conversational language understanding model
- Create a custom text classification solution

- Create a custom named entity extraction solution
- Translate text with Azure AI Translator service
- Create speech-enabled apps with Azure AI services
- Translate speech with the Azure AI Speech service
- Exercise - Analyze text
- Exercise - Create a question answering solution
- Exercise - Build an Azure AI services conversational language understanding model
- Exercise - Classify text
- Exercise - Extract custom entities
- Exercise - Translate text with the Azure AI Translator service
- Exercise - Create a speech-enabled app
- Exercise - Translate speech

Day 04: Develop Solutions with Azure Cognitive Search, Azure AI Document Intelligence and Azure Open AI Service

- Create an Azure AI Search solution
- Create a custom skill for Azure AI Search
- Create a knowledge store with Azure AI Search
- Extract data from forms with Azure Document Intelligence
- Build natural language solutions with Azure Open AI Service
- Apply prompt engineering with Azure Open AI Service
- Use your own data with Azure Open AI Service
- Exercise - Create a search solution
- Exercise - Implement a custom skill
- Exercise - Create a knowledge store
- Exercise - Extract data from custom forms
- Exercise - Integrate Azure Open AI into your app
- Exercise - Utilize prompt engineering in your application
- Exercise - Use your own data with Azure Open AI Service