

Microsoft - Extract insights from visual data on Azure

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Course Number: AI-3008

Duration: 1 days

Overview

Course Description

This 1?day course focuses on building intelligent applications that can see, interpret, and reason over images and documents using different multimodal models and agent-based tools. Learners explore how visual and document inputs can be combined with language models to enable structured extraction, analysis, and decision-making workflows. The course emphasizes practical patterns for extracting information, orchestrating tools, and grounding model responses in visual data.

Audience Profile

This course is designed for developers, AI engineers, and technical professionals who want to build applications that work with images and documents using multimodal, agent-driven approaches. It?s best suited for learners with basic programming experience and a general understanding of cloud or AI concepts.

Audience

Course Details

Outline

- Develop a vision-enabled generative AI application
 - Use a vision-capable model in the Microsoft Foundry portal
 - Develop a vision-based chat app
 - Exercise - Develop a vision-enabled chat app
 - Module assessment
- Generate images with AI
 - What are image-generation models?
 - Explore image-generation models in Microsoft Foundry portal
 - Create a client application that uses an image generation model
 - Exercise - Generate images with AI
 - Module assessment
- Generate videos with Microsoft Foundry
 - Deploy a video generating model
 - Generate video from a prompt
 - Generate video in Python
 - Exercise - Generate video with Sora 2 in Microsoft Foundry
 - Module assessment
- Analyze images with Content Understanding
 - What is Content Understanding?
 - Analyze images with Content Understanding
 - Exercise - Analyze images with Content Understanding
 - Module assessment
- Create a multimodal analysis solution with Azure Content Understanding
 - What is Azure Content Understanding?
 - Create a Content Understanding analyzer
 - Use the Content Understanding API
 - Exercise - Extract information from multimodal content
 - Module assessment
- Create an Azure Content Understanding client application
 - Prepare to use the AI Content Understanding API

- Create a Content Understanding analyzer
- Analyze content
- Exercise - Develop a Content Understanding client application
- Module assessment
- Extract data with Azure Document Intelligence
 - What is Azure Document Intelligence?
 - Use the Document Intelligence Studio
 - Use prebuilt models
 - Train and use custom models
 - Exercise - Analyze documents with Document Intelligence
 - Module assessment
- Create a knowledge mining solution with Azure AI Search
 - What is Azure AI Search?
 - Extract data with an indexer
 - Enrich extracted data with AI skills
 - Search an index
 - Persist extracted information in a knowledge store
 - Exercise - Create a knowledge mining solution
 - Module assessment