

AI-3008: Extract insights from visual data on Azure

Course overview

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.

Prerequisites

Before starting this learning path, you should already have:

- Familiarity with Azure and Microsoft Foundry.
- Programming experience.

Course Content

Module 1: Develop a vision-enabled generative AI application

- Introduction
- Use a vision-capable model in the Microsoft Foundry portal
- Develop a vision-based chat app

Module 2: Generating images and video

- Introduction
- What is image-generation models?
- Explore image-generation models in Microsoft Foundry portal
- Create a client application that uses an image generation model
- Deploy a video generating model
- Generate video from a prompt

- Generate video in Python

Module 3: Analyze images with Content Understanding

- Introduction
- What is Content Understanding?
- Analyze images with Content Understanding

Module 4: Analyze documents with Content Understanding

- Introduction
- What is Azure Content Understanding?
- Create a Content Understanding analyzer
- Use the Content Understanding API
- Prepare to use the AI Content Understanding API
- Create a Content Understanding analyzer
- Analyze content

Module 5: 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