

Extract insights from visual data on Azure (AI-3008)

Duration: 1 Day

Audience: Professionnel TI

Who is this training for?

This course is intended for developers, AI engineers, and technical professionals who want to design and deploy Azure applications that leverage images and documents using multimodal models and Azure AI services. It is suitable for learners with basic programming skills and a general understanding of cloud or AI concepts.

Training objectives

By the end of this course, participants will be able to:

- Design and deploy AI solutions on Azure to extract insights from visual data
- Analyze images and visual content to derive meaningful insights that support business and application scenarios on Azure
- Implement secure and scalable AI workloads on Azure for visual data processing and analysis
- Evaluate and optimize visual data AI solutions using Azure native tools and services

Summary

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

Course outline

Module 1 – Develop a VisionEnabled Generative AI Application

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

- Module assessment

Module 2 – Generate Images with AI

- What are image generation models?
- Explore image generation models in the Microsoft Foundry portal
- Create a client application that uses an image generation model
- Module assessment

Module 3 – Generate Videos with Microsoft Foundry

- Deploy a video generation model
- Generate video from a prompt
- Generate video using Python
- Module assessment

Module 4 – Analyze Images with Content Understanding

- What is Content Understanding?
- Analyze images using Content Understanding
- Module assessment

Module 5 – Create a Multimodal Analysis Solution with Azure Content Understanding

- What is Azure Content Understanding?
- Create a Content Understanding analyzer
- Use the Content Understanding API
- Module assessment

Module 6 – Create an Azure Content Understanding Client Application

- Prepare to use the AI Content Understanding API
- Create a Content Understanding analyzer
- Analyze content
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Module assessment

Module 7 – Extract Data with Azure Document Intelligence

- What is Azure Document Intelligence?
- Use the Document Intelligence Studio
- Use prebuilt models
- Train and use custom models
- Module assessment

Module 8 – Create a Knowledge Mining Solution with Azure AI Search

- What is Azure AI Search?
- Extract data using an indexer
- Enrich extracted data with AI skills
- Search an index
- Persist extracted information in a knowledge store
- Module assessment

Prerequisites

- Familiarity with core Azure concepts, including subscriptions, resource groups, and basic Azure services
- Basic understanding of AI and machine learning concepts, especially related to visual or image data
- General awareness of Azure AI services or prior experience with Azure based AI solutions
- Experience working with data or applications in a cloud environment is helpful but not required

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