

# EXTRACT INSIGHTS FROM VISUAL DATA ON AZURE (AI-3008)

Course Code: 834126

Extract, analyze, and unlock actionable insights from visual data using Azure AI services.

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.

## What You'll Learn

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

- Build 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.

## Who Needs to Attend

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

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

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CLASSROOM LIVE

\$675 CAD

1 Day

## Classroom Live Outline

### Extract insights from visual data on Azure

#### Module 1: 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 2: 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 3: 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 4: Analyze images with Content Understanding

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

#### 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
- Exercise - Extract information from multimodal content

#### Module 6: 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 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
- Exercise - Analyze documents with Document Intelligence

### **Module 8: 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

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VIRTUAL CLASSROOM LIVE

\$675 CAD

1 Day

## Virtual Classroom Live Outline

### Extract insights from visual data on Azure

#### Module 1: 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 2: 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 3: 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

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- Analyze images with Content Understanding
- Exercise - Analyze images with Content Understanding

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- What is Azure Content Understanding?
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- Use the Content Understanding API
- Exercise - Extract information from multimodal content

#### Module 6: 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

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Sep 21 - 21, 2026 | 9:00 AM - 5:00 PM EDT

Dec 7 - 7, 2026 | 9:00 AM - 5:00 PM EST

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