DEVELOP COMPUTER VISION SOLUTIONS IN AZURE (AI-3004)

Course Code: 834029

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What You'll Learn

Students will learn to,

- Analyze images
- Read text in images
- Detect, analyze, and recognize faces
- Classify images
- Detect objects in images
- Analyze video
- Develop a vision-enabled generative AI application
- Generate images with AI

Who Needs to Attend

- AI Professionals
- Database Professionals

Prerequisites

Before starting this learning path, you should already have:

- Familiarity with Azure and the Azure portal.
- Experience programming with C# or Python. If you have no previous programming experience, we recommend you complete the Take your first steps with C# or Take your first steps with Python learning path before starting this one.

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CLASSROOM LIVE	$675 CAD	1 Day

Classroom Live Outline

Module 1: Analyze images

- Provision an Azure AI Vision resource
- Analyze an image
- Generate a smart-cropped thumbnail

Module 2: Read text in images

- Explore Azure AI options for reading text
- Read text with Azure AI Vision Image Analysis
- Exercise - Read text in images

Module 3: Detect, analyze, and recognize faces

- Plan a face detection, analysis, or recognition solution
- Detect and analyze faces
- Verify and identify faces
- Responsible AI considerations for face-based solutions
- Exercise - Detect and analyze faces

Module 4: Classify images

- Azure AI Custom Vision
- Train an image classification model
- Create an image classification client application
- Exercise - Classify images

Module 5: Detect objects in images

- Use Azure AI Custom Vision for object detection
- Train an object detector
- Develop an object detection client application
- Exercise - Detect objects in images

Module 6: Analyze video

- Understand Azure Video Indexer capabilities
- Extract custom insights

- Use Video Analyzer widgets and APIs
- Exercise - Analyze video

Module 7: Develop a vision-enabled generative AI application

- Deploy a multimodal model
- Develop a vision-based chat app
- Exercise - Develop a vision-enabled chat app

Module 8: Generate images with AI

- What are image-generation models?
- Explore image-generation models in Azure AI Foundry portal
- Create a client application that uses an image generation model
- Exercise - Generate images with AI

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VIRTUAL CLASSROOM LIVE	$675 CAD	1 Day

Virtual Classroom Live Outline

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- Analyze an image
- Generate a smart-cropped thumbnail

Module 2: Read text in images

- Explore Azure AI options for reading text
- Read text with Azure AI Vision Image Analysis
- Exercise - Read text in images

Module 3: Detect, analyze, and recognize faces

- Plan a face detection, analysis, or recognition solution
- Detect and analyze faces
- Verify and identify faces
- Responsible AI considerations for face-based solutions
- Exercise - Detect and analyze faces

Module 4: Classify images

- Azure AI Custom Vision
- Train an image classification model
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- Understand Azure Video Indexer capabilities
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PRIVATE GROUP TRAINING	1 Day

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