



AI-3004: Build an Azure AI Vision Solution with Azure AI Services

Course ID #: 7000-901-ZZ-Z

Hours: 7

Course Content

Course Description:

Computer vision is an area of artificial intelligence that deals with visual perception. Azure AI Vision includes multiple services that support common computer vision scenarios.

Prerequisites:

- 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.

Target Audience:

AI Engineers

Developers

Topics:

Lesson:

Analyze images

- Introduction
- Provision an Azure AI Vision resource
- Analyze an image
- Generate a smart-cropped thumbnail and remove background
- Exercise - Analyze images with Azure AI Vision
- Knowledge check
- Summary

Image classification with custom Azure AI Vision models

- Introduction
- Understand custom model types
- Create a custom project
- Label and train a custom model
- Exercise - Classify images with an Azure AI Vision custom model
- Knowledge check
- Summary

Classify images

- Introduction
- Provision Azure resources for Azure AI Custom Vision
- Understand image classification
- Train an image classifier
- Exercise - Classify images with Azure AI Custom Vision
- Knowledge check
- Summary

Detect objects in images

- Introduction
- Understand object detection
- Train an object detector
- Consider options for labeling images
- Exercise - Detect objects in images with Azure AI Custom Vision
- Knowledge check
- Summary



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Detect, analyze, and recognize faces

- Introduction
- Identify options for face detection analysis and identification
- Understand considerations for face analysis
- Detect faces with the Azure AI Vision service
- Understand capabilities of the face service
- Compare and match detected faces
- Implement facial recognition
- Exercise - Detect, analyze, and identify faces
- Knowledge check
- Summary

Read Text in images and documents with the Azure AI Vision Service

- Introduction
- Explore Azure AI Vision options for reading text
- Use the Read API
- Exercise - Read text in images
- Knowledge Check
- Summary

Analyze video

- Introduction
- Understand Azure Video Indexer capabilities
- Extract custom insights
- Use Video Analyzer widgets and APIs
- Exercise - Analyze video
- Knowledge check
- Summary

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NASBA Information

Level: Intermediate

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.

Fields: Computer Software & Applications

CPEs: 14

Policies: Course Registration, Cancellation, Refund and Complaint Resolution

For more information regarding administrative policies such as complaint and refund, please contact our offices at 800-639-3535 or visit us at: www.tcworkshop.com

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