Develop computer vision solutions in Azure (AI-3004)

Duration: 1 Day   Course Code: M-AI3004

Overview:

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.

Target Audience:

- AI Professionals
- Database Professionals

Objectives:

- 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

Prerequisites:

Before starting this course, 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.

Testing and Certification

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Content:

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

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931