Develop computer vision solutions in Azure (AI-3004)

Duration: 1 Day   **Course Code: M-AI3004**   **Delivery Method: Company Event**

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.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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

-

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 00 20 (0) 2 2269 1982 or 16142

training@globalknowledge.com.eg

www.globalknowledge.com/en-eg/

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo

---