Reference: YAS-AI3004

Azure AI Vision AI-3004 Training Course

Developing Computer Vision Solutions

Duration: 1 Day | Hours: 6 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

This Azure AI Vision training teaches you to design applications capable of analysing images and videos using artificial intelligence. You will discover how to classify images, recognise faces, read text with OCR and exploit custom models to extract relevant information.

The programme also covers the integration of Azure AI services and the automation of visual processing. Practical workshops will allow you to deploy intelligent applications based on computer vision in real-world scenarios.

LEARNING OBJECTIVES

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

- Integrate image analysis features into applications using Azure AI Vision
- Create custom models for classification and object detection
- Implement optical character recognition (OCR) to read text in images
- Detect and recognise faces using advanced AI techniques
- Extract relevant information from videos with Azure Video Indexer
- Design and deploy complete computer vision solutions

PREREQUISITES

- Familiarity with Azure and the Azure portal
- Programming experience, particularly in C# or Python
- Understanding of APIs and SDKs for building solutions on Azure

> *Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.*

TARGET AUDIENCE

- Software developers wishing to create computer vision applications based on Azure AI
- AI and data engineers involved in creating and deploying AI solutions
- Technical architects working on applications that exploit visual models

DETAILED PROGRAMME

> The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Analysing Images

- Provisioning an Azure AI Vision resource
- Analysing an image and generating smart thumbnails
- Removing backgrounds and extracting visual information

Module 2 – Reading Text in Images

- OCR with the Read API for printed and handwritten text
- Working with multilingual content
- Integration with downstream business workflows

Module 3 – Detecting, Analysing and Recognising Faces

- Options for face detection and analysis (Face API)
- Comparing and matching detected faces
- Implementing facial recognition solutions responsibly

Module 4 – Image Classification with Custom Models

- Understanding custom model types in Azure AI Custom Vision
- Labelling images and training a model
- Creating a client application for classification

Module 5 – Video Analysis

- Using Azure Video Indexer to identify objects, text and scenes
- Transforming videos into actionable structured data
- Multi-modal search across video archives

Module 6 – Creating AI Vision Applications

- Using pre-trained or custom models to extract visual insights
- Automating image processing tasks
- Improving decision-making with vision-driven workflows

Module 7 – Best Practices, Responsible AI and Practical Workshops

- Ethical considerations for facial-analysis solutions
- Securing and governing visual data
- Hands-on workshop: deploying a complete computer vision solution

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts