# Build an Azure AI Vision solution with Azure AI Service (AI-3004)

## Description

Discover how to revolutionize your applications with artificial intelligence capabilities through our Build an Azure AI Vision solution with Azure AI Service (AI-3004) training. Specially designed for ambitious software developers, this intensive one-day session equips you to integrate advanced AI features, using Azure AI Services and Azure AI Language.

Whether you prefer C# or Python, this course guides you through image analysis, classification, facial recognition, and much more, leveraging the power of custom Azure AI Vision models. Prepare to transform images and videos into actionable data and propel your applications to new heights with Azure AI.

**Course Content**
**Module 1: Analyzing Images**

- Provision an Azure AI Vision resource
- Analyze an image
- Generate an intelligently cropped thumbnail and remove background

**Module 2: Image Classification with Custom Azure AI Vision Models**

- Understand custom model types
- Create a custom project
- Label and train a custom model

**Module 3: Detecting, Analyzing, and Recognizing Faces**

- Identify options for face detection analysis and identification
- Understand considerations for face analysis
- Detect faces with the Azure AI Vision service
- Understand the capabilities of the face service
- Compare and match detected faces
- Implement facial recognition

**Module 4: Reading Text in Images and Documents with Azure AI Vision Service**

- Explore Azure AI Vision options for reading text

* Use the Read API

**Module 5: Analyzing Video**

* Understand the capabilities of Azure Video Indexer
* Extract custom insights
* Use Video Analyzer widgets and APIs

**Lab / Exercises**

* This course provides you with exclusive access to the official Microsoft lab, enabling you to practice your skills in a professional environment.

**Documentation**

* Access to Microsoft Learn, Microsoft's online learning platform, offering interactive resources and educational content to deepen your knowledge and develop your technical skills.

**Participant profiles**

* Developer
* AI Engineer
* App Creator

**Prerequisites**

* Understanding of Microsoft Azure and comfort in using the Azure portal.
* Proficiency in the programming language C# or Python.
* Knowledge of JSON and REST programming semantics.

**Objectives**

* Incorporate image analysis functionalities via Azure AI Vision.
* Create custom vision models for classification and object detection.
* Master Optical Character Recognition (OCR).
* Extract relevant insights from videos.
* Apply advanced facial recognition techniques.
* Leverage Azure Video Analyzer widgets and APIs.

**Description**
Build an Azure AI Vision solution with Azure AI Service (AI-3004)
**Niveau**
Intermédiaire
**Classroom Registration Price (CHF)**
900
**Virtual Classroom Registration Price (CHF)**
850
**Duration (in Days)**
1
**Reference**
AI-3004