

**Microsoft Azure AI Fundamentals (AI-900)**

**Course Number:** MOC-AI-900  
**Duration:** 1 day

**Overview**

This official Microsoft Course, AI-900:  Microsoft Azure AI Fundamentals training, introduces the fundamental concepts related to artificial intelligence (AI), and the services in Microsoft Azure that can be used to create AI solutions. The course is designed to teach students to become professional data scientists or software developers, but rather to build awareness of common AI workloads and the ability to identify Azure services to support them.   This course prepares students for the [AI-900 exam](https://docs.microsoft.com/en-us/learn/certifications/exams/AI-900) for which every attendee receives a voucher.

**Prerequisites**

All attendees should have experience using computers and the internet.

**Materials**

All Microsoft Azure AI Fundamentals training students receive Microsoft official courseware.

For all Microsoft Official Courses taught in their entirety that have a corresponding certification exam, an exam voucher is included for each participant.

**Software Needed on Each Student PC**

Attendees will not need to install any software on their computer for this class. The class will be conducted in a remote environment that Accelebrate will provide; students will only need a local computer with a web browser and a stable Internet connection. Any recent version of Microsoft Edge, Mozilla Firefox, or Google Chrome will be fine.

**Objectives**

* Understand the solutions AI can make possible and considerations for responsible AI practices
* Use the automated machine learning user interface in Azure Machine Learning
* Train and publish a regression model with Azure Machine Learning designer
* Train and publish a classification model with Azure Machine Learning designer
* Train and publish a clustering model with Azure Machine Learning designer
* Use the Azure AI Vision service to analyze images
* Use Azure AI Custom Vision service to create an image classification solution.
* Use Azure AI Custom Vision to create an object detection solution
* Use Azure AI Face service to detect and analyze faces in images
* Read text in images with Azure AI Computer Vision.
* Use the prebuilt receipt processing capabilities of Azure AI Document Intelligence
* Use Azure AI Language for text analysis
* Use Azure AI Speech
* Understand how to translate text and speech using Azure AI Translator and Azure AI Speech
* Build and publish a natural-language machine-learning model
* Use Azure AI Language and Azure AI Bot Service to create a bot

**Outline**

* Get started with AI on Azure
* Use Automated Machine Learning in Azure Machine Learning
* Create a regression model with Azure Machine Learning designer
* Create a classification model with Azure Machine Learning designer
* Create a clustering model with Azure Machine Learning designer
* Analyze images with Azure AI Vision
* Classify images with Azure AI Custom Vision
* Detect objects in images with Azure AI Custom Vision
* Detect and analyze faces with Azure AI Face
* Read text with Azure AI Computer Vision
* Analyze receipts with Azure AI Document Intelligence
* Analyze text with Azure AI Language
* Recognize and synthesize speech with Azure AI Speech
* Translate text and speech with Azure AI services
* Create a language model with Azure AI Language
* Build a bot with Azure AI Language and Azure AI Bot Service