

MICROSOFT AZURE AI FUNDAMENTALS (GKMSAI900)

Course Code: 834001

This course introduces fundamentals concepts related to artificial intelligence (AI), and the services in Microsoft Azure that can be used to create AI solutions.

The course is not 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. The course is designed as a blended learning experience that combines instructor-led training with online materials on the Microsoft Learn platform. The hands-on exercises in the course are based on Learn modules, and students are encouraged to use the content on Learn as reference materials to reinforce what they learn in the class and to explore topics in more depth.

What You'll Learn

Students will learn to,

- 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 the Computer Vision service
- Classify images with the Custom Vision service
- Detect objects in images with the Custom Vision service
- Detect and analyze faces with the Face service
- Read text with the Computer Vision service
- Analyze receipts with the Form Recognizer service
- Analyze text with the Language service
- Recognize and synthesize speech
- Translate text and speech
- Create a language model with Conversational Language Understanding
- Build a bot with the Language Service and Azure Bot Service

Who Needs to Attend

The Azure AI Fundamentals course is designed for anyone interested in learning about the types of solution artificial intelligence (AI) makes possible, and the services on Microsoft Azure that you can use to create them. You don't need to have any experience of using Microsoft Azure before taking this course, but a basic level of familiarity with computer technology and the Internet is assumed. Some of the concepts covered in the course require a basic understanding of mathematics, such as the ability to interpret charts. The course includes hands-on activities that involve working with data and running code, so a knowledge of fundamental programming principles will be helpful.

Prerequisites

Prerequisite certification is not required before taking this course. Successful Azure AI Fundamental students start with some basic awareness of computing and internet concepts, and an interest in using Azure AI services.

Specifically:

- Experience using computers and the internet.
- Interest in use cases for AI applications and machine learning models.
- A willingness to learn through hands-on exploration.

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CLASSROOM LIVE

\$0 USD

1 Day

Classroom Live Outline

Module 1: Get started with AI on Azure

- In this module, you'll learn about the kinds of solution AI can make possible and considerations for responsible AI practices.

Module 2: Use Automated Machine Learning in Azure Machine Learning

- Learn how to use the automated machine learning user interface in Azure Machine Learning

Module 3: Create a regression model with Azure Machine Learning designer

- Learn how to train and publish a regression model with Azure Machine Learning designer.

Module 4: Create a classification model with Azure Machine Learning designer

- Train and publish a classification model with Azure Machine Learning designer

Module 5: Create a clustering model with Azure Machine Learning designer

- Train and publish a clustering model with Azure Machine Learning designer

Module 6: Analyze images with the Computer Vision service

- Learn how to use the Computer Vision cognitive service to analyze images.

Module 7: Classify images with the Custom Vision service

- Learn how to use the Custom Vision service to create an image classification solution.

Module 8: Detect objects in images with the Custom Vision service

- Learn how to use the Custom Vision service to create an object detection solution.

Module 9: Detect and analyze faces with the Face service

- Learn how to use the Face cognitive service to detect and analyze faces in images.

Module 10: Read text with the Computer Vision service

- Learn how to read text in images with the Computer Vision service

Module 11: Analyze receipts with the Form Recognizer service

- Learn how to use the built-in receipt processing capabilities of the Form Recognizer service

Module 12: Analyze text with the Language service

- Learn how to use the Language service for text analysis

Module 13: Recognize and synthesize speech

- Learn about speech recognition and synthesis
- Learn how to use the Speech cognitive service in Azure

Module 14: Translate text and speech

- After completing this module, you will be able to perform text and speech translation using Azure Cognitive Services.

Module 15: Create a language model with Conversational Language Understanding

- Learn what Conversational Language Understanding is.
- Learn about key features, such as intents and utterances.
- Build and publish a natural-language machine-learning model.

Module 16: Build a bot with the Language Service and Azure Bot Service

- After completing this module, you'll be able to create a knowledge base with an Azure Bot Service bot.

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VIRTUAL CLASSROOM LIVE

\$0 USD

1 Day

Virtual Classroom Live Outline

Module 1: Get started with AI on Azure

- In this module, you'll learn about the kinds of solution AI can make possible and considerations for responsible AI practices.

Module 2: Use Automated Machine Learning in Azure Machine Learning

- Learn how to use the automated machine learning user interface in Azure Machine Learning

Module 3: Create a regression model with Azure Machine Learning designer

- Learn how to train and publish a regression model with Azure Machine Learning designer.

Module 4: Create a classification model with Azure Machine Learning designer

- Train and publish a classification model with Azure Machine Learning designer

Module 5: Create a clustering model with Azure Machine Learning designer

- Train and publish a clustering model with Azure Machine Learning designer

Module 6: Analyze images with the Computer Vision service

- Learn how to use the Computer Vision cognitive service to analyze images.

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- Learn how to use the Custom Vision service to create an image classification solution.

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PRIVATE GROUP TRAINING

1 Day

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