

Introduction to AI in Azure

Course AI-901

1 Day

Hands-on, Instructor-led

Introduction

This course introduces fundamental concepts related to artificial intelligence (AI), and the services in Microsoft Azure that can be used to create AI solutions. It teaches a mix of AI concepts and technology skills that are considered foundational to a successful career implementing AI solutions on Microsoft Azure.

Who should attend?

This course is for aspiring technology professionals at the beginning of their career in AI solution development. Some knowledge of Python coding syntax and programming techniques is useful. Additionally, knowledge of core cloud concepts, including cloud storage, cloud compute, and cloud-based authentication and authorization is recommended.

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 experience

Course Outline

Module 1: Introduction to AI concepts

- Generative AI and agents
- Text and natural language
- Speech
- Computer vision
- Information extraction
- Responsible AI
- Module assessment

Module 2: Introduction to generative AI and agents

- Large language models (LLMs)
- Prompts
- AI agents

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>

- Module assessment

Module 3: Introduction to natural language processing concepts

- Tokenization
- Statistical text analysis.
- Semantic language models
- Module assessment

Module 4: Introduction to AI speech concepts

- Speech-enabled solutions
- Speech recognition
- Speech synthesis
- Module assessment

Module 5: Introduction to computer vision concepts

- Computer vision tasks and techniques
- Images and image processing
- Convolutional neural networks
- Vision transformers and multimodal models
- Image generation
- Module assessment

Module 6: Introduction to AI-powered information extraction concepts

- Overview of information extraction
- Optical character recognition (OCR)
- Field extraction and mapping
- Module assessment

Module 7: Get started with AI in Azure

- Understand Azure
- Developing AI apps on Azure
- Microsoft Foundry for AI
- Using Microsoft Foundry endpoints

Module 8: Get started with generative AI and agents in Azure

- Generative AI models
- Using a generative AI model
- Creating an agent

Module 9: Get started with text analysis in Azure

- Azure Language
- Azure Language SDK
- Azure Language MCP
- Module assessment

Module 10: Get started with speech in Azure

- Speech recognition
- Speech synthesis
- Creating a speech-capable agent
- Module assessment

Module 11: Get started with computer vision in Azure

- Multimodal models for image analysis
- Image generation models
- Video generation models
- Module assessment

Module 12: Get started with AI-powered information extraction in Azure

- Extract information from documents
- Extract information from audio and video
- Module assessment