Introduction to AI in Azure

Length: 1 days
Format: Classroom
Time: Day

About This Course

Explore the fundamental concepts related to artificial intelligence (AI), and the services in Microsoft Azure that can be used to create AI solutions.

Introduction to AI in Azure is an beginner-level course designed to explain the fundamental concepts of artificial intelligence and their practical implementation through Microsoft Azure services. The course familiarizes learners with important AI workloads, including generative AI, natural language processing, speech recognition, computer vision, and information extraction. Participants also gain practical experience working with Azure AI Foundry tools and other Azure AI features. It is particularly suitable for developers, AI engineers, and technology professionals who want to start developing intelligent applications and AI-driven solutions using the Azure platform.

Required Exams

Audience Profile

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.

Course Objectives

After this course participants should be able to: * Gain knowledge of the key concepts and terminology related to artificial intelligence.
* Recognize major AI workloads, including generative AI, natural language processing, speech technologies, and computer vision.
* Understand the foundational ideas behind large language models (LLMs), prompting techniques, and AI agents.
* Learn about the Microsoft Azure services that support the development of AI-based applications.
* Develop simple AI solutions using tools available in Azure AI Foundry.
* Use Azure AI services to process and interpret text, speech, and visual data.
* Derive meaningful insights from unstructured information through AI-driven technologies.

* Incorporate responsible AI practices while designing and deploying AI solutions.

Outline

Module 1: AI concepts for developers and technology professionals
* Introduction to AI concepts
* Introduction to generative AI and agents
* Introduction to natural language processing concepts
* Introduction to AI speech concepts
* Introduction to computer vision concepts
* Introduction to AI-powered information extraction concepts

Module 2: Get started with AI applications and agents on Azure
* Get started with AI in Azure
* Get started with generative AI and agents in Azure
* Get started with text analysis in Azure
* Get started with speech in Azure
* Get started with computer vision in Azure
* Get started with AI-powered information extraction in Azure