AI 901T00: Introduction to AI in Azure

Days: 1

Description: 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.

Note: This course replaces AI-900 (with the same title) and reflects the evolution of AI in general and the Azure AI platform in particular, as well as the growing level of technical competence among learners seeking to build skills in AI app and agent development.

Prerequisites: Successful AI-901 students start with some basic awareness of computing and internet concepts, and some basic knowledge of programming concepts and syntax. Specifically:

- Experience using computers and the internet.
- Familiarity with programming concepts and syntax (preferably Python).
- Interest in use cases for AI applications agents.
- A willingness to learn through hands-on exploration.

Audience: The Introduction to AI in Azure course is designed for anyone interested in learning how to start developing artificial intelligence (AI) applications and agents on Azure. You don't need to have any experience of using Microsoft Foundry before taking this course, but a basic familiarity with programming (Python preferred) is assumed.

Course Objectives: Upon completion of this course, students should be able to:

- Define and evaluate IT strategies for different organizational sizes
- Develop strategies for AI leadership readiness
- Identify the leadership skills needed to address AI-related risks and issues
- Assess decision factors for AI implementation

OUTLINE:

MODULE 1: AI CONCEPTS FOR DEVELOPERS AND TECHNOLOGY PROFESSIONALS

Learn core AI concepts and terminology, starting with a basic introduction and then diving into common AI workloads like:

- Generative AI and agents
- Computer vision
- Speech
- Natural language processing and text analysis
- Information extraction

LESSONS:

- 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

EXERCISES:

- Explore a simple AI agent
- Explore generative AI
- Explore text analytics
- Explore AI speech
- Explore computer vision
- Explore AI information extraction

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MODULE 2: GET STARTED WITH AI APPLICATIONS AND AGENTS ON AZURE

Learn how to get started with AI workloads and solutions in Microsoft Foundry. Start with a basic introduction and then dive into common AI workloads like:

- Generative AI and agents
- Text analysis
- Speech
- Computer vision
- Information extraction

LESSONS:

- 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

EXERCISES:

- Get started with Microsoft Foundry
- Get started with generative AI and agents in Microsoft Foundry
- Get started with text analysis in Microsoft Foundry
- Get started with speech in Microsoft Foundry
- Get started with computer vision in Microsoft Foundry
- Get started with Content Understanding in Microsoft Foundry