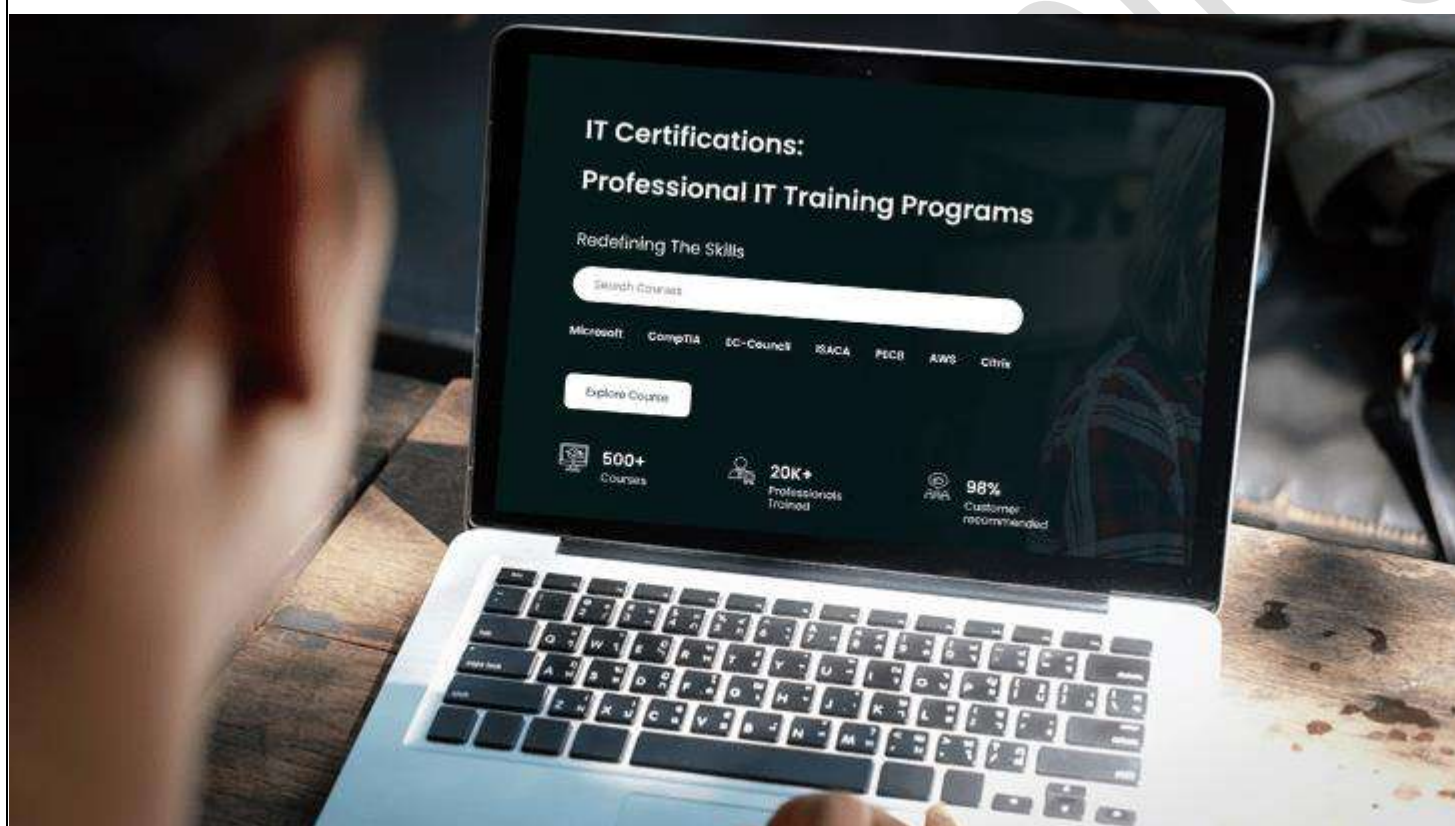# AI-900T00: Microsoft Azure AI Fundamentals Training

DURATION: 1 DAY

Course Description

AI-900T00: Microsoft Azure AI Fundamentals Training is focused on introducing professional to the core Azure services, security, compliance and pricing. Focusing on technical aspect needed for developing Azure AI solutions, this course structure is capable of creating AI chatbot using MS Azure platform. This includes grasp pre-built functionality and language understanding with the Azure Cognitive Services.

Completing this course will give you a deep understanding of AI concepts like Azure AI Language, Azure AI Speech and Azure AI Vision. Aimed to train individuals with awareness of AI this course is ideal for anyone interested in building and creating AI solution.

Start your AI journey in Microsoft Azure with Microtek Learning. This training is designed based on the objectives of the course variant AI-900T00-A.

Who should attend this course?

- Any professional experience with Microsoft Azure is not needed while enrolling in this course.
- Professionals who are aiming to gain a deep understanding of diverse types of AI and its functioning can consider completing this course.
- Individuals planning to enroll should have a fundamental knowledge of mathematics in order to likewise interpret charts.
- The basic knowledge of programming principles will be cooperative if you are seeking to sign up for this training.
- Given below are professionals that can use Azure AI Fundamentals to upskill their current positions:
  - IT professionals have an interest in learning AI
  - Data Scientist for better AI-integrated solutions
  - Software Developers
  - Project Managers
  - Professors

What you will learn

- Describing the features of conversational AI workloads on Microsoft Azure.
- Understand fundamental principles of Artificial Intelligence and its workloads.
- Describing the fundamental features of computer vision workloads on Microsoft Azure.
- Describing in-depth functionalities of Natural Language Processing workloads on Azure.
- Gain knowledge of machine learning and its implementation through Microsoft Azure
- Learn about (NLP) Natural Language Processing Language Data.
- Gain skills in analyzing text, conversational AI concepts, and generative AI while leveraging Azure OpenAI Service.

Prerequisites

- Curiosity to learn and explore AI concepts while gaining hands-on experience.
- A basic understanding of computers and regular utilization of web browsers will be an advantage.
- Familiarity with data concepts and a general understanding of the cloud is an upper hand.

Curriculum

Module 1

- Introduction to AI concepts
- Get started with Azure AI services

Module 2

- Introduction to machine learning concepts
- Get started with machine learning in Azure

Module 3

- Introduction to generative AI concepts
- Get started with generative AI in Azure

Module 4

- Introduction to natural language processing concepts
- Get started with natural language processing in Azure
- Get started with speech in Azure

Module 5

- Introduction to computer vision concepts
- Get started with computer vision in Azure

Module 6

- Introduction to AI-powered information extraction concepts
- Get started with AI-powered information extraction in Azure

Labs:

Module 01. Generative AI

Generative AI describes a category of capabilities within AI that create content. People typically interact with generative AI that has been built into chat applications. In this exercise, you try out generative AI in Azure AI Foundry portal, Microsoft's platform for creating intelligent applications.

Module 02. Natural Language Processing

Natural Language Processing (NLP) is a branch of AI that deals with written and spoken language. You can use NLP to build solutions that extract semantic meaning from text or speech, or that formulate meaningful responses in natural language.

Azure AI Language service includes Text Analytics, with capabilities such as entity recognition, key phrase extraction, summarization, and sentiment analysis. For example, suppose the fictitious travel agent Margie's Travel encourages customers to submit reviews for hotel stays. You could use the Language service to extract named entities, identify key phrases, summarize text, and more.

Module 03. Speech

Module 04. Computer Vision

Azure AI Vision includes numerous capabilities for understanding image content and context and extracting information from images. In this exercise, you will use Azure AI Vision in Azure AI Foundry portal, Microsoft's platform for creating intelligent applications, to analyze images using the built-in try-it-out experiences.

Module 05. Information Extraction

Azure AI Document Intelligence service enables you to analyze and extract information from forms and documents, then identify field names and data.

How does Document Intelligence build upon optical character recognition (OCR)? While OCR can read printed or handwritten documents, OCR extracts text in an unstructured format which is difficult to store in a database or analyze. Document intelligence makes sense of the unstructured data by capturing the structure of the text, such as data fields and information in tables.

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