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Register

Azure AI Fundamentals Certification Training (AI-900)

1 day (7 hours)

Overview

Microsoft Certified: Azure AI Fundamentals (AI-900) is an entry-level certification offered by Microsoft. It validates your understanding of the fundamental concepts of artificial intelligence and your ability to identify the main Azure services related to AI.

Our AI-900 training will give you a clear understanding of key concepts: machine learning, computer vision, natural language processing (NLP), and responsible AI principles. It is designed for people who want to understand AI on Azure and prepare effectively for the exam.

You will learn to recognize different types of AI workloads, distinguish between Azure services suited to each scenario, and understand the essential concepts of model evaluation, image analysis, and language comprehension.

By the end of the training, you will be able to master the vocabulary and concepts expected in the exam, identify the right Azure service for a given need, and approach the certification with a structured revision method thanks to a dedicated exam preparation module.

Like all our training courses, this one is based on the latest Azure reference framework and focuses on a resolutely educational and practical approach.

Objectives

- Understand the fundamentals of artificial intelligence.
- Identify the main machine learning scenarios on Azure.
- Discover Azure computer vision services and their uses.
- Discover Azure NLP and Speech services.
- Apply the principles of responsible AI.

- Effectively prepare for AI-900 certification.

Target audience

- Beginners who want to learn about AI and Azure AI services
- Business professionals (project managers, consultants, decision-makers) seeking to learn about AI
- Technical professionals (IT, cloud, data) who want to validate a basic foundation

Prerequisites

- No technical prerequisites
- General computer science knowledge recommended

Azure AI Fundamentals (AI-900) program

[Day 1 - Morning]

Understanding the fundamentals of artificial intelligence

- Definition of artificial intelligence and its objectives
- Differences between AI, machine learning, and deep learning
- Types of AI workloads: prediction, classification, regression
- Concepts of data, features, and models
- Overview of AI use cases in business
- Hands-on workshop: Identifying business scenarios that leverage AI.

Principles of Machine Learning on Azure

- Introduction to machine learning
- Supervised and unsupervised models
- Life cycle of a machine learning model
- Concepts of datasets, training, and testing
- Evaluation metrics: accuracy, precision, recall
- Hands-on workshop: Exploring a model in Azure Machine Learning Studio.

[Day 1 - Afternoon]

Computer vision and image analysis

- Fundamentals of computer vision
- Object detection and text recognition (OCR)
- Introduction to Azure Vision services
- Use cases: industry, retail, documents
- Limitations and best practices
- Hands-on workshop: Testing an Azure Vision service.

Natural language processing and responsible AI

- Introduction to natural language processing (NLP)
- Text analysis: sentiment, entities, classification
- Azure Language and Azure Speech services
- Principles of responsible AI
- Best practices for ethical design
- Hands-on workshop: Testing an NLP or Speech service.

Preparation for Azure AI Fundamentals certification (AI-900)

- Introduction to AI-900 certification
- Areas assessed in the exam
- Types of questions and common pitfalls
- Tips for taking the exam
- Practical workshop: Practice with certification-style questions.

Companies concerned

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Placement at the start of training

The positioning at the start of the training complies with Qualiopi quality criteria. Upon final registration, the learner receives a self-assessment questionnaire that allows us to assess their estimated level on different types of technologies, their expectations and personal objectives for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Validation

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.