Intellectual POINT
EXCELLENCE THROUGH EDUCATION

Microsoft Azure AI Fundamentals Training Course

Microsoft Azure AI Fundamentals is a certification course designed to equip learners with essential knowledge of AI concepts and Azure AI services for practical business applications.

AIML-100

Course Outcomes

Professional, practical, & hands-on live instructor-led training

Start as a beginner and graduate as a certified professional, with the skills, experience, and job-search know how to get your career started.

Start Today

Potential Career Tracks

AI Engineer   Machine Learning Engineer

Data Analyst   Cloud Solutions Architect

Business Intelligence Developer

AI Solutions Architect

Taught by Industry Veterans &
World Class Instructors

Introduction to Microsoft Azure AI Fundamentals ⌄

▶ Course Overview

Intellectual Point's Microsoft Azure AI Fundamentals Training Course is crafted to provide a comprehensive introduction to artificial intelligence (AI) as it relates to Microsoft's Azure platform. This course delves into the core concepts of AI, including machine learning, computer vision, and natural language processing, while emphasizing their practical applications using Azure services. You will gain hands-on experience with Azure AI tools and learn to integrate AI solutions to enhance business processes. Ideal for those looking to gain a foundational understanding of AI in a cloud environment, the course bridges the gap between AI theory and real-world applications.

Throughout the training, you will explore Azure AI services, machine learning workflows, and the implementation of AI models in Azure. The course features hands-on labs and projects that allow you to develop and deploy AI solutions effectively. By the end, you will have the necessary skills to leverage AI technologies to drive business innovation and efficiency.

⚡ Obtainable Skills

Understanding AI Concepts   Working with Azure Machine Learning

Implementing Computer Vision Solutions   Building Natural Language Processing Applications

AI Model Training and Deployment   Configuring Azure Cognitive Services

Data Preprocessing and Visualization   Creating Azure AI-based Workflows

AI Solution Integration with Business Systems

Course Insights ⌄

☺ Audience Profile

This Microsoft Azure AI Fundamentals Training Course is tailored for early-career IT professionals, developers, and business analysts with a keen interest in integrating AI technologies into their workflows. It's perfect for individuals who are new to AI and are eager to explore its potential within the Azure ecosystem. Suitable for those in technology roles seeking to enhance their skill sets with AI knowledge, the course is also beneficial for decision-makers who aim to implement AI strategies in their organizations. The course assumes no prior technical experience with Azure or AI, making it accessible to a broad range of participants.

👖 Course Outcomes
By the end of this course, participants will:

1. Understand and articulate core AI concepts relevant to the Azure platform.

2. Effectively utilize Azure services to implement intelligent solutions.

3. Prepare for and achieve the Microsoft Certified: Azure AI Fundamentals certification.

4. Gain practical skills in deploying and managing AI models in the cloud.

5. Develop the ability to integrate AI technologies into existing business processes efficiently.

Module by Module Learning *Outline*

6 Modules

Module 1: Core AI Concepts and Azure Overview

Learning Objectives:

- Understand foundational AI concepts and their relevance to Azure.
- Learn how to navigate and utilize basic Azure services for AI.

Topics Covered

Fundamentals of Artificial Intelligence:

- Definition and key principles of AI.
- Overview of AI applications and impact in various industries.

Introduction to Microsoft Azure:

- Azure platform overview and key features for AI.
- Setting up an Azure account and exploring the Azure portal.

Module 2: Machine Learning in Azure

Learning Objectives:

- Gain understanding of machine learning principles and workflows
- Utilize Azure Machine Learning for model development and deployment.

Topics Covered

Basics of Machine Learning:

- Types of machine learning: supervised, unsupervised, reinforcement.
- Key stages in the machine learning lifecycle.

Azure Machine Learning Studio:

- Creating and managing machine learning workspaces.
- Data preparation and building machine learning models.

Module 3: Implementing Computer Vision Solutions

Learning Objectives:

- Explore computer vision capabilities and applications.
- Utilize Azure Cognitive Services for developing vision based solutions.

Topics Covered

Computer Vision Fundamentals:

- Concepts of image processing and analysis.
- Applications of computer vision in different sectors.

Azure Computer Vision Services:

- Overview of Azure's computer vision APIs.
- Implementing image tagging, face detection, and OCR.

Module 4: Building Natural Language Processing Applications

Learning Objectives:

- Understand NLP principles and technologies.
- Implement NLP solutions using Azure resources.

Topics Covered

Introduction to Natural Language Processing:

- Key NLP concepts and terminologies.
- Use of NLP in business and technology.

Azure NLP Services and Tools:

- Leveraging Azure's language understanding (LUIS).
- Implementing text analytics and language translation.

Module 5: AI Model Deployment and Business Integration

Learning Objectives:

- Learn to deploy and manage AI models in Azure.
- Understand AI integration into business processes for enhanced decision making.

Topics Covered

AI Model Deployment:

- Strategies for deploying AI models in a cloud environment.
- Monitoring and optimizing models postdeployment.

Integrating AI into Business:

- Creating workflows integrating AI models and business systems.
- Case studies on AI driven business transformations.