



Consulting and Training | Reach New Heights

Course Name

Microsoft Certified: Azure Data Scientist Associate

Sector Name

Information Technology

Document Type

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Microsoft Certified: Azure Data Scientist Associate

Course Introduction

The Microsoft Certified: Azure Data Scientist Associate course is designed for data professionals who want to enhance their skills in building, training, and deploying machine learning models on Microsoft Azure. Participants will learn how to analyze data, develop predictive models, and leverage cloud-based AI solutions to solve real-world business problems.

This course covers key topics such as data exploration, feature engineering, model training, evaluation, and deployment using Azure Machine Learning services. Learners will gain hands-on experience with data preprocessing, supervised and unsupervised learning, automated machine learning (AutoML), and model monitoring to ensure high-quality, accurate predictions.

Participants will also understand data strategy, Azure AI integration, and best practices for data science workflows, enabling them to design scalable and efficient machine learning pipelines. The program emphasizes practical applications, empowering data scientists to make data-driven decisions that support organizational goals.

This training is ideal for data scientists, machine learning engineers, AI developers, and IT professionals who want to certify their expertise with the Microsoft Azure platform. By completing the course, participants will be prepared to earn the Microsoft Certified:

Azure Data Scientist Associate certification and apply their knowledge to advanced data science projects in the cloud

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Target Audience

- ✓ Data scientists and machine learning practitioners seeking to enhance their skills in Azure.
- ✓ IT professionals looking to specialize in data science and machine learning on the Azure platform.

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Learning Objectives

- ✓ Understand the Azure Machine Learning environment and its components.
- ✓ Prepare and transform data for machine learning applications.
- ✓ Build, evaluate, and optimize machine learning models using Azure ML.
- ✓ Deploy machine learning models as web services and integrate them into applications.
- ✓ Manage and govern machine learning models throughout their lifecycle.
- ✓ Apply best practices for ethical AI and data science.

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Course Outline

✓ Day 01

Introduction to Azure Machine Learning

- ✓ Overview of Azure Machine Learning
- ✓ Understanding the data science lifecycle
- ✓ Setting up an Azure Machine Learning workspace

Data Preparation

- ✓ Data ingestion and exploration
- ✓ Data cleaning and transformation
- ✓ Feature engineering techniques
- ✓ Using Azure Data Factory for data integration

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Course Outline

✓ Day 02

Building Machine Learning Models

- ✓ Selecting algorithms for different scenarios
- ✓ Training machine learning models using Azure ML
- ✓ Utilizing automated machine learning (AutoML)
- ✓ Experiment tracking with Azure ML

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Course Outline

✓ Day 03

Model Evaluation and Optimization

- ✓ Evaluating model performance metrics
- ✓ Hyperparameter tuning techniques
- ✓ Cross-validation and model selection
- ✓ Handling imbalanced datasets

Model Deployment

- ✓ Deploying models as web services
- ✓ Using Azure Kubernetes Service for model deployment
- ✓ Configuring endpoints and testing deployments
- ✓ Versioning and rollback of models

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Course Outline

✓ Day 04

Consuming Deployed Models

- ✓ Integrating models with applications
- ✓ Using Azure Logic Apps and Power Apps
- ✓ Securing access to deployed models
- ✓ Monitoring and logging model performance

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Course Outline

✓ Day 05

Model Management and Governance

- ✓ Maintaining and retraining models
- ✓ Implementing model governance practices
- ✓ Managing data drift and model accuracy
- ✓ Best practices for model lifecycle management

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 4, 2027	April 8, 2027	5 days	4250.00 \$	KSA , Riyadh
May 18, 2026	May 22, 2026	5 days	4950.00 \$	Spain , Barcelona
Aug. 24, 2026	Aug. 28, 2026	5 days	4250.00 \$	UAE , Dubai
Sept. 21, 2026	Sept. 25, 2026	5 days	4250.00 \$	UAE , Dubai

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