

## Why Microsoft Azure Data Scientist Certifications ?

Learn how to operate machine learning solutions at cloud scale using Azure Machine Learning.

This Microsoft Azure Data Scientist teaches you to leverage your existing knowledge of Python and machine learning to manage data ingestion and preparation, model training and deployment, and machine learning solution monitoring in Microsoft Azure.

## Audience Profile :

- data scientists with existing knowledge of Python and machine learning frameworks like:
- Scikit-Learn, PyTorch, and TensorFlow,
- who want to build and operate machine learning solutions in the cloud.
- This course is designed for data scientists with existing knowledge of Python and machine learning frameworks like Scikit-Learn, PyTorch, and Tensorflow, who want to build and operate machine learning solutions in the cloud.

## Prerequisites:

- Creating cloud resources in Microsoft Azure.
- Training and validating machine learning models using common frameworks like Scikit-Learn, PyTorch, and TensorFlow.
- Using Python to explore and visualize data.



## Course Overview:

- Microsoft Azure Data Scientist Associate Learning path is for subject matter expertise applying data science and machine learning to implement and run machine learning workloads on Azure.
- Responsibilities for this role include planning and creating a suitable working environment for data science workloads on Azure.
- Data Scientists run data experiments and train predictive models. In addition, they manage, optimize, and deploy machine learning models into production.
- In this Data Scientist Learning path A candidate will gain knowledge and experience in data science and using Azure Machine Learning and Azure Databricks.
- Successful Azure Data Scientists start this role with a fundamental knowledge of cloud computing concepts, and experience in general data science and machine learning tools and techniques

## In this Learning path

1. **Designing and Implementing a Data Science Solution on Azure**
2. **Implementing a Machine Learning Solution with Microsoft Azure Databricks**

## Designing and Implementing a Data Science Solution on Azure

### Outline:

- Module 1: Introduction to Azure Machine Learning
- Module 2: No-Code Machine Learning with Designer
- Module 3: Running Experiments and Training Models
- Module 4: Working with Data
- Module 5: Compute Contexts
- Module 6: Orchestrating Operations with Pipelines
- Module 7: Deploying and Consuming Models
- Module 8: Training Optimal Models
- Module 9: Interpreting Models
- Module 10: Monitoring Models

## Implementing a Machine Learning Solution with Microsoft Azure Databricks Outline:

### Module 1: Introduction to Azure Databricks

- Getting Started with Azure Databricks
- Working with Data in Azure Databricks
- Lab : Getting Started with Azure Databricks
- Lab : Working with Data in Azure Databricks

### Module 2: Training and Evaluating Machine Learning Models

- Preparing Data for Machine Learning
- Training a Machine Learning Model
- Lab : Training a Machine Learning Model
- Lab : Preparing Data for Machine Learning

### Module 3: Managing Experiments and Models

- Using MLflow to Track Experiments
- Managing Models
- Lab : Using MLflow to Track Experiments
- Lab : Managing Models

### Module 4: Integrating Azure Databricks and Azure Machine Learning

- Tracking Experiments with Azure Machine Learning
- Deploying Models
- Lab : Deploying Models in Azure Machine Learning

### Training Solutions:

✓ Offline Classroom Instructor-Led Training in our labs or onsite Locations.

✓ Virtual Instructor-Led Training Via Virtual Video Conferencing Tools.

### Why Learners Prefer CLS as their Training Services provider ?

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