

DP-090: Implementing a Machine Learning Solution with Microsoft Azure Databricks Training

Duration: 1 Day

Course Content:

This Machine Learning Solution with Microsoft Azure Databricks course intends all professional developers and software engineers to know that machine learning development is beyond regular software development. Professionals need an extensive range of tools and frameworks for Machine learning development.

In such cases, this course helps them ensure the best machine learning development. By acquiring this course, professionals will learn how to accelerate and manage their end-to-end machine learning development on Microsoft Azure Data bricks. This Microsoft Azure Databricks training course also offers them how to use ML flow and Azure machine learning to create incredibly faster development. With this course, professionals will train the models with AutoML, track training parameters, and create feature tables.

After completing this course, professionals will establish themselves as Machine learning developers in many firms.

This training is designed based on the objectives of the course variant DP-090T00-A.

Prerequisites for this training

- Create machine learning models
- You should have experience of using Python to work with data
- Some knowledge of machine learning concepts

Who should attend this course?

This course is designed for data scientists with experience of Python who need to learn how to apply their data science and machine learning skills to Azure Databricks.

What you will learn

- Provision an Azure Databricks workspace and cluster
- Use Azure Databricks to train a machine learning model
- Use MLflow to track experiments and manage machine learning models
- Integrate Azure Databricks with Azure Machine Learning

Curriculum

Module 1: Introduction to Azure Databricks

In this module, you will learn how to provision an Azure Databricks workspace and cluster and use them to work with data.

Lesson

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

Lab: Getting Started with Azure Databricks

Lab: Working with Data in Azure Databricks

After completing this module, you will be able to:

- Provision an Azure Databricks workspace and cluster
- Use Azure Databricks to work with data

Module 2: Training and Evaluating Machine Learning Models

In this module, you will learn how to use Azure Databricks to prepare data for modeling, and train and validate a machine learning model.

Lesson

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

Lab: Preparing Data for Machine Learning

Lab: Training a Machine Learning Model

After completing this module, you will be able to use Azure Databricks to:

- Prepare data for modeling
- Train and validate a machine learning model

Module 3: Managing Experiments and Models

In this module, you will learn how to use MLflow to track experiments running in Azure Databricks, and how to manage machine learning models.

Lesson

- Using MLflow to Track Experiments
- Managing Models

Lab: Using MLflow to Track Experiments

Lab: Managing Models

After completing this module, you will be able to:

- Use MLflow to track experiments
- Manage models

Module 4: Integrating Azure Databricks and Azure Machine Learning

In this module, you will learn how to integrate Azure Databricks with Azure Machine Learning

Lesson

- Tracking Experiments with Azure Machine Learning
- Deploying Models

Lab: Running Experiments in Azure Machine Learning

Lab: Deploying Models in Azure Machine Learning

After completing this module, you will be able to:

- Run Azure Machine Learning experiments on Azure Databricks compute
- Deploy models trained on Azure Databricks to Azure Machine Learning