

# DP-090T00: Implementing a Machine Learning Solution with Microsoft Azure Databricks

## Course outline

### 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.

#### *Lessons*

- 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.

#### *Lessons*

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

*Lab : Training a Machine Learning Model*

*Lab : Preparing Data for Machine Learning*

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.

*Lessons*

- 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

*Lessons*

- Tracking Experiments with Azure Machine Learning
- Deploying Models

*Lab : Deploying Models in Azure Machine Learning*

*Lab : Running Experiments 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