

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

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Data:** 19 Dez. 2022 a 19 Dez. 2022
- **Preço:** 500€
- **Horário:** Laboral - das 9h00 às 17h00
- **Duração:** 7 horas

Azure Databricks is a cloud-scale platform for data analytics and machine learning. In this one-day course, you'll learn how to use Azure Databricks to explore, prepare, and model data; and integrate Databricks machine learning processes with Azure Machine Learning.

### Destinatários

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 on Azure Databricks

### Pré-requisitos

- Before attending this course, you should have experience of using Python to work with data, and some knowledge of machine learning concepts.

### Objectivos

- 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

# Programa

## **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

Labs:

- Getting Started with Azure Databricks
- 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

## **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

Labs:

- Training a Machine Learning Model
- 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

## **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

Labs:

- Using MLflow to Track Experiments
- Managing Models

After completing this module, you will be able to:

- Use MLflow to track experiments
- Manage models

## **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

Labs:

- Deploying Models in Azure Machine Learning
- 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