

DP-090T00-A (IMPLEMENTING A MACHINE LEARNING SOLUTION WITH MICROSOFT AZURE DATA) 2022

Objetivo

Skills gained

- 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

Público Alvo

Audience Profile 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

Prerequisites Before attending this course, you should have experience of using Python to work with data, and some knowledge of machine learning concepts. Before attending this course, complete the following learning path on Microsoft Learn:

- Create machine learning models

Carga Horária

8 horas (1 dias).

Conteúdo Programático

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