



## Implementing a Machine Learning Solution with Microsoft Azure Databricks

CODICE	DP-090T00
DURATA	1 gg
PREZZO	350,00 €
EXAM	

### DESCRIZIONE

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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.

### OBIETTIVI RAGGIUNTI

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- 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

### TARGET

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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

### PREREQUISTI

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

### CONTENUTI

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## 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