



# Train and deploy a machine learning model with Azure Machine Learning (DP-3007)

## Description

Discover how to master Azure Machine Learning to optimize your artificial intelligence projects. Our course “**Train and deploy a machine learning model with Azure Machine Learning (DP-3007)**” guides you through the crucial steps from data preparation and compute resource configuration to training and deploying models for real-time predictions.

Whether you want to **create and manage custom environments**, monitor model performance with MLflow, or **deploy your solutions effectively**, this learning path is designed to equip professionals with the necessary skills to excel in the dynamic field of machine learning. Join our course ‘Train and deploy a machine learning model with Azure Machine Learning (DP-3007)’ to turn your knowledge into concrete actions and drive your AI projects to new heights of efficiency and innovation.”

## Course Content

### Module 1 : Make data available in Azure Machine Learning

- Understand URIs
- Create a datastore
- Create a data asset

### Module 2 : Work with compute targets in Azure Machine Learning

- Choose the appropriate compute target
- Create and use a compute instance
- Create and use a compute cluster

### Module 3 : Work with environments in Azure Machine Learning

- Understand environments
- Explore and use curated environments
- Create and use custom environments

### Module 4 : Run a training script as a command job in Azure Machine Learning

- Convert a notebook to a script
- Run a script as a command job
- Use parameters in a command job

## **Module 5 : Track model training with MLflow in jobs**

- Track metrics with MLflow
- View metrics and evaluate models

## **Module 6 : Register an MLflow model in Azure Machine Learning**

- Log models with MLflow
- Understand the MLflow model format
- Register an MLflow model

## **Module 7 : Deploy a model to a managed online endpoint**

- Explore managed online endpoints
- Deploy your MLflow model to a managed online endpoint
- Deploy a model to a managed online endpoint
- Test managed online endpoints

## **Documentation**

- Digital course material included

## **Participant profiles**

- AI Engineer
- Data Engineer
- Developer
- Data Scientist

## **Prerequisites**

- Knowledge of the data science process
- Basic understanding of data science concepts
- Familiarity with the Python language

## **Objectives**

- Make data accessible in Azure Machine Learning
- Master compute targets in Azure Machine Learning
- Run a training script as a command job in Azure Machine Learning
- Track model training with MLflow
- Register an MLflow model in Azure Machine Learning
- Deploy a model to a managed online endpoint

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## **Niveau**

Intermédiaire

## **Classroom Registration Price (CHF)**

900

## **Virtual Classroom Registration Price (CHF)**

850  
**Duration (in Days)**  
1  
**Reference**  
DP-3007