

# Implement a data science and machine learning solution for AI with Microsoft Fabric

This training introduces the basics of ingesting, transforming, and analyzing streaming data with Microsoft Fabric.



## Training recipients

The training is intended for:

- Data Scientists
- Data Engineers



## Benefits

1. Machine Learning Fundamentals in Microsoft Fabric – You'll learn how to run machine learning experiments in MS Fabric.
2. Hands-on learning – Through the labs, you will gain experience that you can easily translate into real tasks at work.
3. Managing ML models in MS Fabric – You will gain knowledge of how MLflow works in MS Fabric.
4. Understanding Data Wrangler – You'll learn how to prepare data for machine learning.
5. Using notebooks – You will learn data mining using machine learning in MS Fabric in practice.



## Training program

1. Introduction to data science in Microsoft Fabric
  - Understand the data science process
  - Explore and process data with Microsoft Fabric
  - Train and score models with Microsoft Fabric
2. Explore data science with notebooks in Microsoft Fabric
  - Explore notebooks
  - Loading data for exploration
  - Overview of data distribution
  - Check for missing data in notebooks
  - Apply advanced data mining techniques
3. Preprocessing data with Data Wrangler in Microsoft Fabric
  - Overview of Data Wrangler
  - Perform data mining
  - Handling Missing Data
  - Transform data using operators.
4. Train and track machine learning models with MLflow in Microsoft Fabric
  - Learn how to train machine learning models
  - Train and track models with MLflow and experiments
  - Model management in Microsoft Fabric.
5. Generate batch predictions using a deployed model in Microsoft Fabric
  - Customize model behavior for batch scoring
  - Prepare data before generating predictions
  - Generate and save predictions to the delta table.



## Expected preparation of the participant

- Knowledge of basic concepts and services related to databases and machine learning.
- Knowledge of the basics of Python and SQL (or at least one of them).
- Completing the DP-900 Learning Path



## Training Includes

- manual in electronic form available on the platform: <https://learn.microsoft.com/pl-pl/training/>
- access to Altkom Akademia's student portal

Training method:

- Lecture and product presentation (50%)
- Exercise (50%)

Major teaching tools include PowerPoint presentations, test-environment demonstrations, hands-on lab environments, and Microsoft Learn



## Language

Training: English

Materials: English

## Duration

1 days / 7 hours

## Examination method