



# DP-604T00: Implement a data science and machine learning solution for AI with Microsoft Fabric

Course ID #: 7000-933-ZZ-Z

Hours: 7

## Course Content

### Course Description:

Explore the data science process and learn how to train machine learning models to accomplish artificial intelligence in Microsoft Fabric.

### Prerequisites:

You should be familiar with basic data concepts and terminology.

### Topics:

#### Lesson 1: Get started with data science in Microsoft Fabric

- Introduction
- Understand the data science process
- Explore and process data with Microsoft Fabric
- Train and score models with Microsoft Fabric
- Exercise - Explore data science in Microsoft Fabric
- Knowledge check
- Summary

#### Lesson 2: Explore data for data science with notebooks in Microsoft Fabric

- Introduction
- Explore notebooks
- Load data for exploration
- Understand data distribution
- Check for missing data in notebooks
- Apply advanced data exploration techniques
- Visualize charts in notebooks
- Exercise: Use notebook for data exploration in Microsoft Fabric
- Knowledge check
- Summary

#### Lesson 3: Preprocess data with Data Wrangler in Microsoft Fabric

- Introduction
- Understand Data Wrangler
- Perform data exploration
- Handle missing data
- Transform data with operators
- Exercise: Preprocess data with Data Wrangler in Microsoft Fabric
- Knowledge check
- Summary

#### Lesson 4: Train and track machine learning models with MLflow in Microsoft Fabric

- Introduction
- Understand how to train machine learning models
- Train and track models with MLflow and experiments
- Manage models in Microsoft Fabric
- Exercise - Train and track a model in Microsoft Fabric
- Knowledge check
- Summary



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## Lesson 5: Generate batch predictions using a deployed model in Microsoft Fabric

- Introduction
- Customize the model's behavior for batch scoring
- Prepare data before generating predictions
- Generate and save predictions to a Delta table
- Exercise - Generate and save batch predictions
- Knowledge check
- Summary

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