Build machine learning solutions using Azure Databricks Training

Duration: **1 Day**

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Azure Databricks is a cloud-scale platform for data analytics and machine learning. This course equips data scientists and machine learning engineers with the skills to implement scalable data processing and machine learning solutions using Azure Databricks. Participants will explore key concepts, including Apache Spark for data analytics, model training and tuning, AutoML, and MLflow for experiment tracking. The course emphasises data transformation, feature engineering, and model deployment. Through hands-on labs, learners will gain practical experience in building, training, and deploying models in a collaborative environment.

Prerequisites

Participants should have:

- Experience using Python to explore data and train machine learning models.
- Familiarity with common open-source frameworks such as Scikit-Learn, PyTorch, and TensorFlow.
- Recommended: Completion of the Create machine learning models learning path before starting this course.

Target audience

This course is designed for:

- Data scientists and machine learning engineers looking to scale their ML solutions.
- AI and data professionals working with large-scale data analytics and processing.
- Teams responsible for implementing machine learning workflows in Azure.

What You Will Learn

By the end of this course, learners will be able to:

- Describe the capabilities of Azure Databricks and its role in both data analytics and machine learning.
- Use Apache Spark in Azure Databricks to process, transform, and analyse large-scale data.
- Train and evaluate machine learning models within Azure Databricks.
- Leverage MLflow for experiment tracking, model registration, and deployment.
- Optimise hyperparameters using Hyperopt and review trial results.
- Implement AutoML using both the Azure Databricks user interface and code-based approaches.
- Manage machine learning workflows in production, including data automation, versioning, and deployment strategies.