DP-3014: Implementing a Machine Learning solution with Azure Databricks

Course Duration: 08 hours (1 day)

Module 01: Explore Azure Databricks
- Fully-managed data lake analytics platform
- Based on open-source technologies
- Integrated with Azure for resource management and security

Module 02: Train a machine learning model in Azure Databricks
- Prepare data for machine learning
- Train a machine learning model
- Evaluate a machine learning model

Module 03: Use MLflow in Azure Databricks
- Use MLflow to log parameters, metrics, and other details from experiment runs.
- Use MLflow to manage and deploy trained models.

Module 04: Tune hyperparameters in Azure Databricks
- Use the Hyperopt library to optimize hyperparameters.
- Distribute hyperparameter tuning across multiple worker nodes.

Module 05: Use AutoML in Azure Databricks
- Use the AutoML user interface in Azure Databricks
- Use the AutoML API in Azure Databricks

Module 06: Train deep learning models in Azure Databricks
- Train a deep learning model in Azure Databricks
- Distribute deep learning training by using the Horovod library