

Implementing a Machine Learning solution with Azure Databricks

Course Duration: 8 Hrs.

Course Code: DP-3014

Course Overview

DP-3014: Implementing a Machine Learning solution with Azure Databricks Course is designed to provide scalable machine learning models and to provide professors with the knowledge and skills required to take advantage of the power of azure Databricks to make large data workload.

Course Content

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
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Module 06: Train deep learning models in Azure Databricks

- Train a deep learning model in Azure Databricks
- Distribute deep learning training by using the library