

Azure Databricks Integration workshop

Course Overview

Duration - 8 Hours | Level - Intermediate

Azure Databricks is a unified, open analytics platform designed to build, deploy, share, and maintain enterprise-grade data, analytics, and AI solutions at scale. This course provides a comprehensive exploration of data engineering and data warehousing with Azure Databricks, equipping you with the skills to process and manage large-scale data efficiently. You will learn the strategies of seamlessly integrating with Azure services, Microsoft Fabric, Power BI, and Azure OpenAI to enhance analytics capabilities. Additionally, it covers aspects of Azure Databricks administration, governance, and security.

Course Modules

Day 1

Module 1 - Introduction to Azure Databricks

Azure Databricks: A Data Intelligence Platform

Key Differences: Azure Databricks vs. Databricks

Decision guide: Azure Databricks vs. Microsoft Fabric

Module 2 - Integration with Azure

Seamless integration with Microsoft Azure services

Connect to Azure Data Lake Storage (ADLS) Gen2 and Blob Storage

Leverage Azure Databricks for Azure Cosmos DB Operations

Secret management with Azure Key Vault

Connect Azure Databricks to Azure Event Hubs

Module 3 - Integration with Microsoft Fabric and Power BI

Data Intelligence with Azure Databricks and Microsoft Fabric

Connect Power BI to Azure Databricks

Integration with Azure Data Factory

Mirroring Azure Databricks Unity Catalog

Hands on labs

End-to-End Streaming Pipeline with DLT in Azure Databricks

Real-Time Streaming with Azure Databricks and Azure Event Hubs

Day 2

Module 4 - Integration with Azure OpenAI

Mosaic AI and machine learning on Azure Databricks

Azure Databricks connector in Azure AI Foundry

Query Generative AI model serving endpoints

Databricks Assistant, AI/BI Genie and AI Functions on Azure Databricks

Chat with LLMs and prototype GenAI apps using AI Playground

Module 5 - Security and Governance

Integrate Azure Databricks with Microsoft Purview

Integration of Azure Databrick Unity Catalog with Microsoft Purview

Hands on labs

Setup and use Unity Catalog for Data Management in Azure Databricks

Responsible AI with Large Language Models using Azure Databricks and Azure OpenAI

Connect to and manage Azure Databricks in Microsoft Purview