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Openminds Technologies

Microsoft Fabric Course

- Microsoft Fabric Introduction
- Microsoft Fabric Workspace Setup
- Lakehouse
- Data Warehousing in Microsoft Fabric
- Data Processing with Apache Spark
- Delta Tables in Microsoft Fabric
- Data Pipelines in Microsoft Fabric
- Ingest Data with Dataflow Gen2
- Real-Time Data Analytics
- Data Science with Microsoft Fabric
- Project - Medallion Architecture - End-to-End Project
- Project - Ecommerce Order Analytics

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1 Microsoft Fabric Introduction

- Introduction to Microsoft Fabric
- What is Microsoft Fabric
- Why Microsoft Fabric is So Important

2 Microsoft Fabric Workspace Setup

- Setup Account with Microsoft Fabric
- Microsoft Fabric Cost After 30 Days
- Microsoft Fabric Hierarchy and Terminology
- Walkthrough of Microsoft Fabric Features
- Microsoft Fabric Architecture
- Create Workspace in Microsoft Fabric

3 Lakehouse

- Introduction to Data Lake, OneLake, Parquet Files, Delta Lake and Lakehouse
- What is Lakehouse in Microsoft Fabric
- How to Create Lakehouse in Microsoft Fabric
- OneLake File Explorer in Microsoft Fabric
- Create Tables in Lakehouse
- Shortcuts in Microsoft Fabric
- Shortcuts Practical in Microsoft Fabric
- External Shortcuts Practical in Microsoft Fabric
- Cache in Microsoft Fabric
- Setup Your Lakehouse and Ingest Data
- SQL Endpoints in Microsoft Fabric
- Visual Query Editor
- Create Report

4 Data warehousing in Microsoft Fabric

- Introduction to Data Warehouse
- Dimensional Modelling in Data Warehouse
- Star Schema
- Snowflake Schema
- Difference Between Star Schema and Snowflake Schema
- Dimension Tables
- Fact Tables
- Setup Your Data Warehouse in Microsoft Fabric
- Load Data into Warehouse
- COPY INTO Command in Microsoft Fabric Data Warehouse
- CTAS - Create Table As Select to Load Data into Data Warehouse
- Query Your Data Warehouse
- Views in Data Warehouse
- Stored Procedures in Data Warehouse
- Visual Query Editor in Data Warehouse
- Create Report
- Performance Monitoring in Data Warehouse

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5 Data Processing with Apache Spark

- Introduction to Large-Scale Data Analytics
- Apache Spark
- Spark Pools in Microsoft Fabric
- Spark Settings in Microsoft Fabric
- Setup Your First Notebook
- DataFrame from Lakehouse
- Data Transformation, Saving Transformed Data and Partitioning Using PySpark
- PySpark Select, Drop and Limit Commands
- Typecasting in PySpark
- Sort in PySpark
- Group By in PySpark
- Filter in PySpark in Microsoft Fabric
- Handle Nulls in PySpark in Microsoft Fabric
- Parquet Files and Partitioning in Spark RDD
- Spark SQL API to Process Data
- Data Visualization in Spark Notebook
- Schedule and Monitor Notebook in Microsoft Fabric

6 Delta tables in Microsoft Fabric

- Data Lake and Delta Table
- Managed and External Tables
- Data Insertion in Delta Table
- Table Updation and Table Versioning
- Streaming
- Create Delta Table from Streaming Data

7 Data Pipelines in Microsoft Fabric

- ETL (Extract, Transform and Load)
- Pipeline: Copy Data Activity, Delete Data Activity and Notebook Activity
- Create Data Factory in Microsoft Fabric
- Copy Data Activity
- Delete Activity in Microsoft Fabric
- Get Metadata Activity
- Filter Activity
- Lookup Activity
- Parameterization in Microsoft Fabric
- ForEach Activity in Microsoft Fabric
- Variables in Pipeline
- If Condition Activity in Microsoft Fabric
- Invoke Pipeline Activity in Microsoft Fabric
- Wait Activity in Microsoft Fabric
- Schedule Pipeline in Microsoft Fabric
- Trigger Pipeline
- Run and Monitor Pipeline in Microsoft Fabric
- Notifications in Microsoft Fabric

8 Ingest Data with Dataflow (Gen2)

- Dataflow Gen2 in Microsoft Fabric
- Dataflow Gen2 - Connect Sources in Microsoft Fabric
- Dataflow Gen2 - String Transformation in Microsoft Fabric
- Dataflow Gen2 - Mathematical Transformation in Microsoft Fabric
- Copy Data and Transform Data Using Dataflow Gen2
- Dataflow Gen2 - Diagram View in Microsoft Fabric
- Dataflow Gen2 - Append
- Dataflow Gen2 - Join in Microsoft Fabric
- Dataflow Gen2 - Load Destination Table in Microsoft Fabric

9 Real Time Data Analytics

- Introduction to Real-Time Data Analytics
- Setup Your KQL Database
- Capturing and Delivering Data Using Event Streams
- Data Processing and Analysis Using KQL Query Set
- Data Visualization Using Power BI

10 Data Science with Microsoft Fabric

- Introduction to Data Science, Predictive Analytics and Machine Learning
- Notebook, Experiment and Run
- Setup and Load Data into Notebook
- Create Experiment and Build Your Model
- Compare and Save Your Models

Project: – Medallion Architecture – End to End Project

- Project Introduction
- Data Pipeline - ADLS to Lakehouse
- Data Cleaning and Report

Project: – Ecommerce Order Analytics Project – Spark SQL + Data Pipeline + Power bi

- Project Introduction
- Project Practical - Data Pipeline + Lakehouse + Spark SQL
- Power BI and Reporting