AI-powered Analytics with Microsoft Fabric

Course Overview

Duration - 16 Hours | Level - Intermediate

Microsoft Fabric is an all-in-one analytics solution for enterprises that covers everything from data movement to data science, and business intelligence. Attend this course to learn more about this comprehensive suite of services, including Data Engineering, Data Warehousing and Data Insights, all in one place. Learn how to implement this easy-to-use product that is designed to simplify analytics needs of enterprises.

Course Modules

Day 1

Module 1 - Introduction to Microsoft Fabric

Microsoft Fabric - The unified data platform for AI transformation

Copilot in Microsoft Fabric

Administer Microsoft Fabric

Module 2 - Get started with Data Engineering experiences using Microsoft Fabric

Data Engineering in Microsoft Fabric

Work with Lakehouse

OneLake Shortcut Transformations

Data integration and transformation with Data Factory in Microsoft Fabric

Transform and enrich data seamlessly with AI functions

Manage a Workspace with git

Hands on labs

Use Case 1 - Create a Lakehouse, ingest sample data and build a report

Use Case 2 - Perform Sentiment analysis and Text translation with AI functions in Microsoft Fabric

Day 2

Module 3 - Data Engineering using Apache Spark, Delta Lakes and Notebooks

Apache Spark in Microsoft Fabric

Delta Lake tables optimization and V-Order

Use Microsoft Fabric Notebooks

Microsoft Fabric extension for Visual Studio Code

Spark Administration settings

Module 4 – Secure and govern data with Microsoft Purview

Secure data with Microsoft Purview

Data governance with Microsoft Purview

Hands on labs

Use Case 3 - Analyze data with Apache Spark

Use Case 4 - A Data Factory solution for moving and transforming data with dataflows and data pipelines

Day 3

Module 5 - Performance at scale with Data Warehousing in Microsoft Fabric

Data Warehousing in Microsoft Fabric

Data ingestion options

Mirror databases in Microsoft Fabric

Dimensional modeling

Query and monitor the Data Warehouse

Power BI semantic models in Microsoft Fabric

Warehouse snapshots

Manage performance

Hands on labs

Use Case 5 - Build a Sales and Geography Data Warehouse for Contoso in Microsoft Fabric

Use Case 6 - Real-Time Intelligence and Data Warehousing with AbboCost in Microsoft Fabric

Use Case 7 - Secure a Microsoft Fabric Data Warehouse

Day 4

Module 6 - Data insights with AI in Microsoft Fabric

Data Science in Microsoft Fabric

Prepare Data

Track models and experiments

Train machine learning models

Automated Machine Learning (AutoML)

Module 7 - Agentic AI with Microsoft Fabric and Azure AI Foundry

Enhance data interaction with Fabric data agent

Deliver Agentic AI experiences with Azure AI Foundry

Hands on labs

Use Case 8 - Train and track a model in Microsoft Fabric

Use Case 9 - Implement a Data Science scenario in Microsoft Fabric

Use Case 10 - Identify and extract text with Document Intelligence in Microsoft Fabric

Use Case 11 - Chat with your data using Fabric data agent (Optional)