

KOENIG SOLUTIONS • COURSE OUTLINE

DP-604T00: Implement a Data Science and Machine Learning Solution for AI with Microsoft Fabric

Learn to explore data, train and track machine learning models, and deploy batch prediction solutions using Microsoft Fabric.

8 Hours

DURATION

6

MODULES

22

TOPICS

5

HANDS-ON EXERCISES

COURSE OVERVIEW

Explore the data science process and learn how to train machine learning models to accomplish artificial intelligence in Microsoft Fabric. This training equips you with hands-on skills in notebooks, model tracking with MLflow, and deploying solutions for batch predictions—all within Microsoft Fabric's unified analytics platform.

WHO THIS COURSE IS FOR

Data Scientists

Data Analysts

Machine Learning Engineers

Data Engineers

AI Practitioners

PREREQUISITES

You should be familiar with:

- Basic data concepts and terminology
- Fundamental understanding of machine learning workflows
- Experience working with structured data is helpful but not required

LEARNING OBJECTIVES

By the end of this course, you'll be able to:

- Navigate Microsoft Fabric's tools for data science and machine learning
- Perform data exploration using notebooks and Data Wrangler
- Train, track, and manage ML models using MLflow within Fabric
- Deploy models and generate batch predictions using Delta tables
- Collaborate across teams within Fabric's unified environment

6 Modules, 22 Topics

01

Introduction to end-to-end Analytics Using Microsoft Fabric

TOPICS

- Explore end-to-end analytics with Microsoft Fabric
- Explore data teams and Microsoft Fabric
- Enable and use Microsoft Fabric

02

Exercise

Get Started with Data Science in Microsoft Fabric

TOPICS

- Understand the data science process
- Explore and process data with Microsoft Fabric
- Train and score models with Microsoft Fabric

03

Exercise

Explore Data for Data Science with Notebooks in Microsoft Fabric

TOPICS

Explore notebooks · Load data for exploration · Understand data distribution · Check for missing data in notebooks · Apply advanced data exploration techniques · Visualize charts in notebooks

04

Exercise

Preprocess Data with Data Wrangler in Microsoft Fabric

TOPICS

Understand Data Wrangler · Perform data exploration · Handle missing data · Transform data with operators

05

Exercise

Train and Track Machine Learning Models with MLflow in Microsoft Fabric

TOPICS

- Understand how to train machine learning models
- Train and track models with MLflow and experiments
- Manage models in Microsoft Fabric

Generate Batch Predictions Using a Deployed Model in Microsoft Fabric

TOPICS

- Customize the model's behavior for batch scoring
- Prepare data before generating predictions
- Generate and save predictions to a Delta table

HANDS-ON EXERCISES

Practise What You Learn

#	MODULE	ACTIVITY
02	Get Started with Data Science in Microsoft Fabric	Explore data science in Microsoft Fabric
03	Explore Data for Data Science with Notebooks in Microsoft Fabric	Use notebook for data exploration in Microsoft Fabric
04	Preprocess Data with Data Wrangler in Microsoft Fabric	Preprocess data with Data Wrangler in Microsoft Fabric
05	Train and Track Machine Learning Models with MLflow in Microsoft Fabric	Train and track a model in Microsoft Fabric
06	Generate Batch Predictions Using a Deployed Model in Microsoft Fabric	Generate and save batch predictions

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

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Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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