



Train. Employ. Empower.

CAREER SKILLS+™ Course Outline
DP-604T00 Implement a data science and machine learning solution for AI with Microsoft Fabric

DP-604T00 Implement a data science and machine learning solution for AI with Microsoft Fabric

Price
\$495.00

Duration
1 Daytime Class
or
2 Evening Classes

Delivery Methods
Virtual, Private
Group,

CAREER SKILLS+™

The DSDT Career Skills+ program presents an immersive exploration into the realm of data science and machine learning, empowering learners to harness the power of Microsoft Fabric for artificial intelligence applications. This comprehensive course equips participants with the essential tools and techniques to navigate the data science lifecycle, from data exploration to model deployment, enabling them to tackle real-world challenges with confidence.

Who Should Attend

This course is designed for individuals seeking to enhance their data science and machine learning skills within the Microsoft Fabric environment. It caters to professionals, researchers, and students aspiring to integrate digital technology with career development, fostering practical, real-world applications of AI solutions.

Course Prerequisites

Participants should possess a basic understanding of data concepts and terminology. Prior experience with programming or statistical analysis is beneficial but not mandatory.

Course Objectives

Upon successful completion of this course, participants will be able to:

Comprehend the data science process and its applications in the Microsoft Fabric ecosystem.

Leverage advanced data exploration techniques and visualizations to gain insightful perspectives.

Preprocess and transform data using Microsoft Fabric's Data Wrangler for optimal model training.

Train, track, and manage machine learning models with MLflow and Microsoft Fabric's cutting-edge tools.

Generate and deploy batch predictions from trained models, tailoring their behavior for specific use cases.

Agenda

Introduction to Data Science in Microsoft Fabric

Understand the data science process and its applications

Explore and process data with Microsoft Fabric's tools

Train and score machine learning models using Fabric

Data Exploration with Notebooks

Explore the power of Notebooks in Microsoft Fabric

Load and preprocess data for exploration

Understand data distribution and handle missing data

Apply advanced data exploration techniques

Visualize data with interactive charts and plots

Data Preprocessing with Data Wrangler

Introduce Microsoft Fabric's Data Wrangler tool

Perform data exploration and identify preprocessing needs

Handle missing data and outliers

Transform data using Wrangler's operator library

Model Training and Tracking with MLflow

Understand machine learning model training in Fabric

Train and track models with MLflow and experiments

Manage and version models in Microsoft Fabric

Batch Prediction Generation and Deployment

Customize model behavior for batch scoring

Prepare and preprocess data for prediction
Generate and save predictions to a Delta table
Deploy models for real-time prediction services

Unleash the power of data science and machine learning with
Microsoft Fabric, and gain a competitive edge in the ever-evolving
digital landscape.