

Microsoft Fabric



Data
Factory



Synapse Data
Engineering



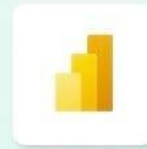
Synapse Data
Science



Synapse Data
Warehouse



Synapse Real
Time Analytics



Power BI



Data
Activator

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

Overview

DP-604T00: Implement a Data Science and Machine Learning Solution for AI with Microsoft Fabric is an instructor-led course designed to equip data scientists and AI professionals with the skills to build and operationalize end-to-end machine learning workflows using Microsoft Fabric. The course focuses on leveraging Fabric's unified platform to prepare data, train models, and deploy AI solutions at scale. Participants will explore key components such as Data Science Experiences, Notebooks, MLflow integration, and collaboration tools that streamline the machine learning lifecycle. Through hands-on labs, learners will gain practical experience in managing experiments, tracking models, and integrating predictive analytics into business applications, all within the Microsoft Fabric environment.

Prerequisites

Before attending this course, participants should have:

- A basic understanding of machine learning principles
- Familiarity with Python and data science tools
- Experience with cloud platforms or data analytics is a plus

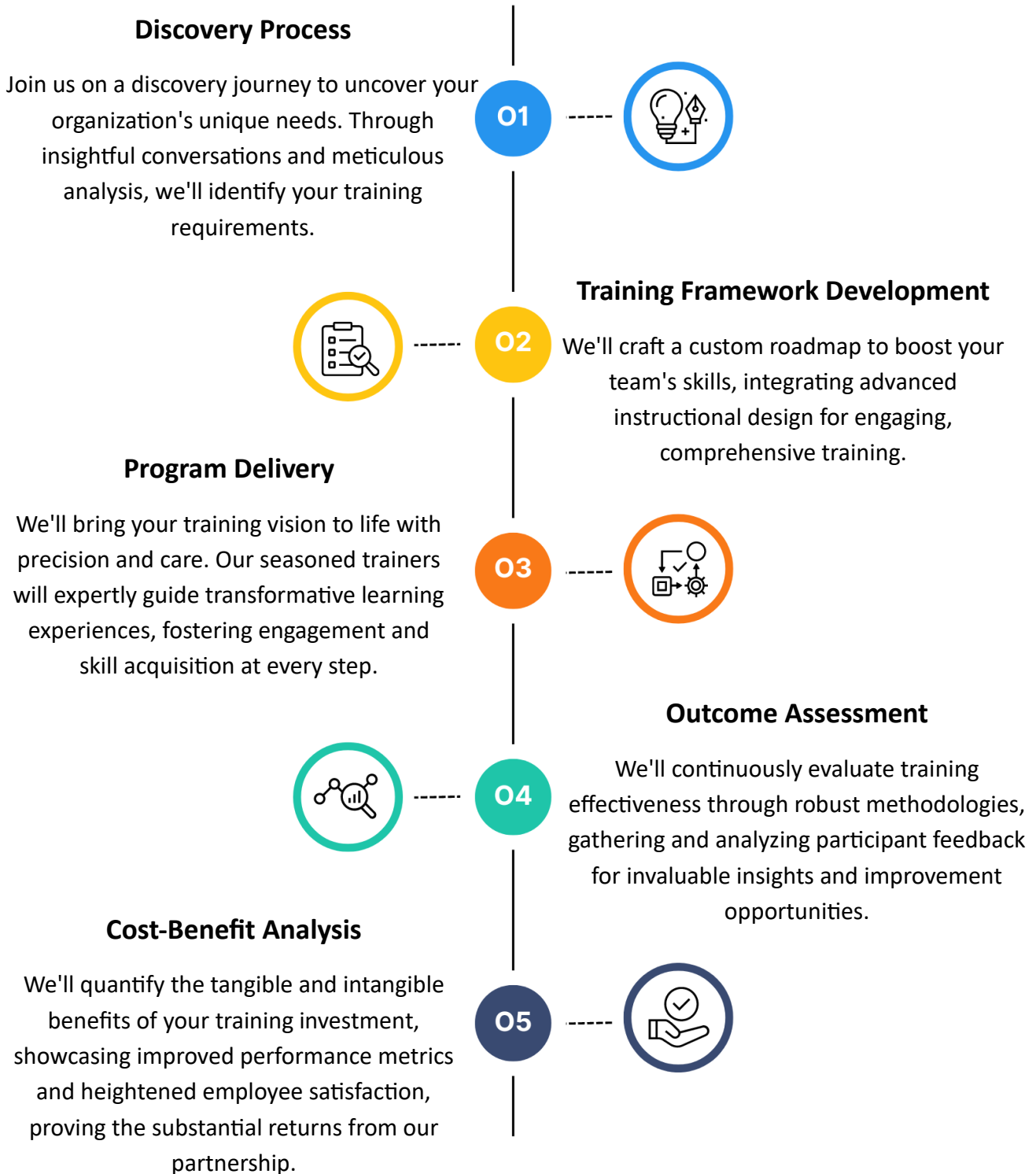
Course Level

- Beginner

Course Duration

- 1 Day – 8 Hours

Creating Tailor - Made Training Programs to Meet Your **Specific Goals**



Course Outline

DP-604T00: Implement a Data Science and Machine Learning Solution for AI with Microsoft Fabric is an instructor-led course designed for data scientists and AI professionals looking to build and operationalize machine learning solutions using the Microsoft Fabric platform. This course provides in-depth knowledge of how to explore, prepare, model, and deploy AI solutions using Fabric Data Science experiences, Lakehouse architecture, and Apache Spark environments.

Participants will gain hands-on experience in using Notebooks, ML models, and AutoML in Fabric to streamline machine learning workflows and integrate predictive insights into business applications. The course also explores how to collaborate with other roles in a unified platform, monitor model performance, and ensure scalability and governance in AI projects.

Module 1: Explore end-to-end analytics with Microsoft Fabric

- Lesson: Describe end-to-end analytics in Microsoft Fabric
- Lesson: Understand data teams and roles that use Fabric
- Lesson: Describe how to enable and use Fabric

Module 2: Get started with data science in Microsoft Fabric

- Lesson: Explore common machine learning models
- Lesson: Understand the data science process
- **Demo:** Get started with data science in Microsoft Fabric

Module 3: Explore data for data science with notebooks in Microsoft Fabric

- Lesson: Understand data distribution
- Lesson: Explore patterns and relationships in the data
- **Demo:** Explore data for data science with notebooks in Microsoft Fabric

Module 4: Preprocess data with Data Wrangler in Microsoft Fabric

- Lesson: Work with Data Wrangler
- Lesson: Handling missing data
- Lesson: Use one-hot encoding operator
- Lesson: Use min-max scaling operator
- **Exercise:** Preprocess data with Data Wrangler in Microsoft Fabric

Module 5: Train and track machine learning models with MLflow in Microsoft Fabric

- Lesson: Train a model
- **Exercise:** Train and track machine learning models with MLflow in Microsoft Fabric

Module 6: Generate batch predictions using a deployed model in Microsoft Fabric

- Lesson: Customize the model's behavior for batch scoring
- **Exercise:** Generate batch predictions using a deployed model in Microsoft Fabric

Indus Tech Services

Who We Are....

Indus Tech Services is an IT company that specializes in providing comprehensive training, consulting & implementation services for software solutions designed to address the diverse business challenges faced by organizations today. With a passion for technology and a deep understanding of business processes, Indus Tech is committed to empowering businesses to optimize their operations, boost productivity, and drive sustainable growth.

Indus Tech Services and Microsoft Partnership

As a proud **Microsoft Partner**, **Indus Tech Services** is uniquely equipped to deliver top-tier training and certification programs designed to meet the evolving needs of today's workforce. Our partnership with Microsoft allows us to offer direct access to the latest tools, resources, and industry insights, ensuring that our courses are aligned with the most current technology trends. This collaboration enables us to provide unparalleled support to our students, helping them gain the skills and knowledge required to excel in their careers. By choosing Indus Tech Services, you're not just learning; you're gaining a competitive edge with Microsoft-backed expertise and certification.

Why Choose Us...

From time to time, life serves up a profound nudge, urging us to step beyond our routines and make a difference in the world. Indus Tech Services emerged from one such compelling wake-up call. We are not just a company; we are a dedicated force with a belief in providing solutions to organizations, regardless of their size, and we infuse a human touch into everything we do.

Our Expertise

With over 25 years of collective experience navigating the intricacies of daily business transactions, irrespective of geographical, cultural, time zone, or language barriers, our team has honed their expertise to meet any challenge head-on. This wealth of experience has armed our resources with an unparalleled understanding and skill set to tackle a broad spectrum of obstacles.

Training

With two decades of unwavering commitment and a global footprint, our company is a true pioneer in the fields of linguistic, transactional, technical, and behavioural training for some of the world's largest corporate entities. Our unparalleled expertise has been refined through years of dedication and innovation, making us the go-to choice for businesses seeking transformative training solutions.

Consulting

Our company has been at the forefront of providing world-class IT consulting services to organizations spanning the globe. With an extensive and proven track record, we have honed our expertise to meet the ever-evolving technological needs and challenges faced by businesses, regardless of their scale or industry.

Implementation

Our experience covers a broad spectrum of IT implementation services, including system integration, software deployment, network architecture, cloud migration, and infrastructure setup. We understand that the successful execution of IT projects is pivotal to an organization's growth and efficiency. Therefore, we bring a depth of knowledge and a commitment to delivering results that set us apart.

To know more contact us at info@industechservices.com or call us at +91 - 99961 61170.