



Train. Employ. Empower.

# DP-3007 Train and deploy a machine learning model with Azure Machine Learning

Price  
\$495.00

Duration  
1 Daytime Class  
or  
2 Evening Classes

Delivery Methods  
Virtual, Private  
Group,

## CAREER SKILLS+™

This specialized course within the DSDT's Career Skills+ program focuses on the practical aspects of training and deploying machine learning models using Azure Machine Learning. Participants will learn to effectively manage data, configure compute resources, and utilize MLflow for tracking model metrics. Emphasis is placed on real-world applications, ensuring learners not only understand the theoretical aspects but also gain hands-on experience in deploying models for real-time predictions. The course concludes with a comprehensive exploration of setting up and managing a fully functional Azure Machine Learning workspace.

---

### Who Should Attend

This course is designed for individuals aiming to enhance their careers in data science and machine learning. It is ideal for aspiring data scientists, machine learning engineers, and IT professionals who seek to deepen their expertise in deploying scalable machine learning models using cloud technologies. Participants looking to integrate practical machine learning skills with their career development will find this program particularly beneficial.

## Course Prerequisites

There are no prerequisites for this course, making it accessible to beginners as well as those looking to formalize and expand their skills in machine learning with Azure.

## Course Objectives

**Data Management:** Learn to make data readily available within Azure Machine Learning, including the creation and management of datastores and data assets.

**Compute Management:** Acquire skills to select, create, and manage compute instances and clusters tailored to specific project needs.

**Environment Handling:** Explore and implement both curated and custom environments within Azure Machine Learning to optimize the training process.

**Script Running:** Transform notebooks into scripts and execute them as command jobs, utilizing parameters effectively for flexible operations.

**Model Training and Deployment:** Master the use of MLflow for tracking, registering, and deploying machine learning models to managed online endpoints for scalable, real-time applications.

## Agenda

### **Data Management in Azure Machine Learning**

Understand URIs

Create and manage datastores and data assets

### **Working with Compute Targets**

Selection and creation of compute targets

Utilization of compute instances and clusters

### **Environment Management**

Overview of Azure Machine Learning environments

Exploration and application of curated and custom environments

### **Execution of Command Jobs**

Conversion of notebooks to scripts

Running scripts with parameterization in command jobs

### **Model Training and Deployment with MLflow**

Tracking and evaluating model metrics

Registration and deployment of models to managed online endpoints

Testing and managing online deployment scenarios

This structured agenda ensures that by the end of the course, participants will be proficient in utilizing Azure Machine Learning for practical, real-world machine learning applications.

