Microsoft

Designing and Implementing an Azure Data Science Solution

LEADER
IN PROFESSIONAL
IT TRAINING

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About this Course

- Learn how to use Azure Machine Learning to operate machine learning workloads in the cloud
  - Build on your existing data science and machine learning knowledge
  - Leverage cloud services to perform machine learning at scale

Course Agenda

Module	Lessons
Module 1: Introduction to Azure Machine Learning	• Getting Started with Azure Machine Learning • Azure Machine Learning Tools
Module 2: "No-code" Machine Learning with Designer	• Training Models with Designer • Publishing Models with Designer
Module 3: Running Experiments and Training Models	• Introduction to Experiments • Training and Registering Models
Module 4: Working with Data	• Working with Datastores • Working with Datasets
Module 5: Compute Contexts	• Working with Environments • Working with Compute Targets
Module 6: Orchestrating Operations with Pipelines	• Introduction to Pipelines • Publishing and Running Pipelines
Module 7: Deploying and Consuming Models	• Real-time Inferencing • Batch Inferencing
Module 8: Training Optimal Models	• Hyperparameter Tuning • Automated Machine Learning
Module 9: Interpreting Models	• Introduction to Model Interpretability • Using Model Explainers
Module 10: Monitoring Models	• Monitoring Models with Application Insights • Monitoring Data Drift

Lab Environment

- The course emphasizes hands-on learning
- You will need:
  - A modern web browser (for example, Microsoft Edge)
  - The lab files for this course: **https://aka.ms/dp100-labs**
  - A Microsoft Azure subscription