

MACHINE LEARNING DEPLOYMENT ON AZURE



COURSE OVERVIEW

Gain the necessary knowledge about how to use Azure services to develop, train, and deploy, machine learning solutions. The course starts with an overview of Azure services that support data science. From there, it focuses on using Azure's premier data science service, Azure Machine Learning service, to automate the data science pipeline.

PREREQUISITE

- Azure Fundamentals
- Understanding of data science
- How to program in the Python programming language and use the Python libraries

WHAT YOU'LL LEARN

- Completely manage your Azure subscription, including network configurations, backups, implementation or solutions, apps & containers, and monitoring

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MODULES

Module 1: Introduction to Machine Learning

- Getting Started Machine Learning Tools with Azure
- No-Code Machine Learning Training & Publishing Models

Module 2: Experiments, Training Models & Working with Data

- Experiments & Training Models
- Overview and running Experiments
- Training & Registering Data
- Datastores
- Datasets

Module 3: Compute Context & Operations with Pipelines

- Compute context, environment, and targets
- Pipeline Overview, publishing & running

Module 4: Deploying, Consuming & Training Models

- Deploying & Consuming
- Deep Learning in Real-time
- Batch Inference Training
- Hyperparameter Optimization
- AutoML: Automated Machine Learning

Module 5: Interpreting & Monitoring Models

- Interpreting Models Overview
- Application of interpreting models
- Leveraging Application Insights
- Monitoring Data Drift on database