
AZURE DATA SCIENTIST ASSOCIATE – (DP-100)

1. Introduction to Azure Machine Learning (AML)

- 1.1 Overview of Azure Machine Learning
- 1.2 Azure Machine Learning Workspaces
- 1.3 Azure Machine Learning Services and CLI

2. Data Preprocessing and Data Wrangling

- 2.1 Data Exploration and Visualization
- 2.2 Data Preprocessing Techniques
- 2.3 Data Transformation and Feature Engineering

3 Machine Learning with Azure ML

- 3.1 Supervised vs. Unsupervised Learning
- 3.2 Model Training and Evaluation
- 3.3 Hyperparameter Tuning
- 3.4 AutoML (Automated Machine Learning)

4. Building and Training Machine Learning Models

- 4.1 Choosing the Right Algorithm
- 4.2 Model Training with Azure ML
- 4.3 Model Evaluation and Selection

5. Automated Machine Learning (AutoML)

- 5.1 Introduction to AutoML
- 5.2 Automated Feature Engineering
- 5.3 AutoML Experimentation and Optimization

6. Model Deployment and Management

- 6.1 Deploying Machine Learning Models in Azure



- 6.2 Monitoring and Managing Deployed Models
- 6.3 Scaling and Updating Models

7. Responsible AI

- 7.1 Fairness and Bias in Machine Learning
- 7.2 Interpreting Machine Learning Models
- 7.3 Explainable AI (XAI) in Azure

8. MLOps (Machine Learning Operations)

- 8.1 Introduction to MLOps
- 8.2 Building CI/CD Pipelines for ML
- 8.3 Model Versioning and Monitoring

9. Working with Datasets and Datastores

- 9.1 Datasets and Datastores in Azure ML
- 9.2 Data Ingestion and Management
- 9.3 Data Versioning and Data Monitoring

10. Azure Cognitive Services Integration

- 10.1 Integrating Azure Cognitive Services with ML
- 10.2 Using Cognitive Services for NLP and Computer Vision
- 10.3 Building AI-powered Applications

11. Time Series Forecasting with Azure ML

- 11.1 Time Series Forecasting Concepts
- 11.2 Building Time Series Models with Azure ML

12. Anomaly Detection

- 12.1 Introduction to Anomaly Detection
- 12.2 Building Anomaly Detection Models





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