INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AZURE MACHINE LEARNING SERVICE

Introduction to Azure Machine Learning Service

1. Overview of Azure Machine Learning (AML)
2. Key Concepts: Models, Experiments, Compute Targets
3. Comparison with Azure Machine Learning Studio

Setting Up Azure Machine Learning Environment

1. Creating an Azure Machine Learning Workspace
2. Managing Workspaces and Resources
3. Azure Machine Learning CLI and SDK

Azure Machine Learning Computer

1. Understanding Compute Targets: VMs, GPU Instances, and AKS
2. Configuring and Scaling Compute Instances
3. Docker and Kubernetes Integration

Data Preparation and Management

1. Data Stores and Datasets in Azure Machine Learning
2. Data Preparation Techniques
3. Data Versioning and Management

Azure Machine Learning Experiments

1. Creating and Running Experiments
2. Tracking Experiment Runs
3. Experimentation Best Practices

Model Training and Deployment

1. Training Models with Azure Machine Learning
2. Hyperparameter Tuning and Automated ML
3. Deploying Models as Web Services

Model Management and Monitoring

1. Model Versioning and Deployment Profiles
2. Model Performance Monitoring and Logging
3. Model Retraining and Lifecycle Management

Integration with Azure Services

1. Integrating Azure Databricks with Azure Machine Learning
2. Using Azure Machine Learning Pipelines
3. Integration with Azure DevOps for CI/CD

Advanced Machine Learning Techniques

1. Deep Learning with Azure Machine Learning
2. Reinforcement Learning Concepts
3. Using Automated Machine Learning (AutoML)

Security and Compliance

1. Role-Based Access Control (RBAC) for Azure Machine Learning
2. Compliance and Governance Best Practices
3. Secure Model Deployment

Monitoring and Optimization

1. Monitoring Azure Machine Learning Services
2. Optimization Techniques for Performance and Cost
3. Scaling and Autoscaling Models

Advanced Topics and Case Studies

1. Real-world Use Cases and Case Studies
2. Advanced Analytics and Feature Engineering
3. Interpretability and Explainability of Machine Learning Models