Hyperscaler - AWS for Data Engineers and Data Scientist

Duration - 6 Days / 48 Hours

Program Description

This 2-track, 48-hour intensive program is designed to equip Data Engineers and Data Scientists with the skills to use AWS cloud services for storage, data warehousing, and machine learning operations. The training emphasizes hands-on experience with tools like S3, RDS, Redshift, Athena, SageMaker, and MLOps.

Participants will gain foundational and advanced skills in working with AWS for storing, transforming, analysing, modeling, and deploying data

Program Structure
AWS for Data Engineers – 24 Hours

Overview

Learn AWS storage and database services (S3, RDS, Redshift, Athena, Lake Formation), data movement, and architecture design.

Learning Goals

- Master AWS storage services like S3 with versioning and lifecycle policies
- Design, create, and manage relational databases using RDS
- Learn to implement and manage a data warehouse with AWS Redshift
- Gain experience using Athena, Glue, and Lake Formation for data lake analytics
- Build and automate data pipelines using AWS-native tools

Course Topics

- Introduction to AWS for Data Engineering
- Amazon S3 and Storage Services
- AWS RDS – Relational Database Service, DynamoDB
- AWS Data Warehouse Services (Redshift, Athena, Lake Formation)
- Data Pipeline and Orchestration (Glue, Data Pipeline)

Program Structure
AWS for Data Scientists & ML Engineers – 24 Hours

Overview

Explore machine learning on AWS using SageMaker, MLOps, model deployment, and feature engineering workflows.

Learning Goals

- Understand AWS AI/ML ecosystem with SageMaker at the core
- Prepare, process, and engineer features using SageMaker Studio
- Train and deploy ML models using built-in and custom algorithms
- Build scalable, automated ML workflows with MLOps using Docker and Kubernetes
- Apply deployment best practices using Flask apps, model containers, and versioning

Course Topics

- Introduction to Machine Learning on the Cloud
- AWS SageMaker Essentials
- Feature Engineering Concepts
- MLOps and Model Deployment
- Cloud ML Operations
- Generative AI and AWS Bedrock