DVS Technologies

DVS MULTI CLOUD DATA ENGINEERING Course Content

COURSE HIGHLIGHTS:

- ✓ Real-time project execution with live Health Care Data sets
- ✓ Health Care Domain knowledge
- ✓ Trainers are certified Real Time working professionals
- ✓ Main focus on Hands-on sessions
- ✓ Course aligned to Certification
- ✓ Flexible timings for working people
- ✓ Guidance in Resume Preparation
- ✓ 100% placement assistance

PYTHON:

- Variables
- Functions
- Conditional Statements
- Finite and Indefinite Loops
- List, String, Tuples, Dictionary, Sets
- Exception Handling
- Collection Module

SQL:

- CURD Operations
- Create
- Insert
- Update
- Delete
- Date Time Function
- String Functions
- Aggregations
- Functions
- Group By
- Order By
- Joins
- Windowing Functions
- Rank
- Dense Rank
- Lead
- Lag

DATABRICKS:

Spark Core

- PySpark Architecture
- RDD
- DAG
- Transformation and Actions

Spark SQL

- Architecture
- Data Frame API
- Different DF Operations
- Select, applying Shema, adding columns, Case expressions, Filters ect
- Aggregations
- Windowing operations
- Optimization techniques
- Partitioning, Bucketing, AQE, Cache, Catalyst Optimizer, etc.,
- CSV, JSON, JDBC, Parquet, Delta

Databricks

- Architecture
- Control plan and data plan
- Delta Lake House
- Medallion Architecture
- Delta Live tables
- Entity Management
- Data lineage capturing
- Databricks SQL(Warehouse)
- Unity catalog
- Job Workflow Management
- Autoloader
- 5 Free Databricks Associate Engineer practice certification exam papers

AWS

- IAM
- VPC
- EC2
- GLUE
- DMS
- ATHENA

- LAMBDA
- S3
- REDSHIFT
- Cloud Watch
- DynamoDB
- Lake Formation (Data Governance)
- Step functions

Note: Data Zone (Advanced Concept more related to Data Mesh)

We will Conduct workshop once after completion of two batches.

AZURE

- RBAC(Role Based Access Control)
- Vnet
- Azure Virtual Machines
- Data Factory
- Data Lake Analytics
- Synapse analytics
- Azure Functions
- Azure Blob Storage

Note: Data Fabric (One Lake Advanced Concept)

We will Conduct workshop once after completion of two batches.

Streaming

- Kafka
- Spark Streaming

Project

- Real Time Project Step-by-Step Execution
- Medallion Architecture
- AWS, Databricks, Azure Architecture diagrams
- Health Care Data set
- Can easily fit into any resume
- Keep discussion on Devops(White Elephant) side of the project