VINAY TECH

vinaytechhouse.com

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Azure Data Bricks

• Real-Time Working • Detailed Subject • Interview Suitable

- Mr.Pavan [10+ Years of IT Experience]
- 30 hrs *(Normal Track)* , Daily 1 hour
- Normal / Fast Track / 1 on 1 / Customized
- Rs. 15,000
- Multiple timings available

INSTITUTE PROVIDES

- Two **Near Real Time** Projects
- In-Depth **Theory & Practical** Material
- Complete **Practical Oriented** Training
- Mock Interviews
- Case Studies / User Stories / Sprints
- Daily **Live Class Videos**
- **FAQ Tests** in Whatsapp
- **Resume Preparation** Sessions

COMPONENTS	
Introduction to Big Data	Databricks Integration
Introduction to Hadoop	Databricks – Streaming API
Introduction to Spark	Databricks – Lakehouse (Delta Lake)
Introduction To Databricks	Workflows in Databricks
Working with Deatricks Filesystem - DBFS	Azure DevOps – Repos
Databricks -Sparck Core	SDLC and Agile methodology
Databricks - Spark-SQL- Data Frames	End to End Data Migration Project from On Premises to Cloud.
Databricks- Handle multiple file formats	
Databricks utilities	Interview Questions
Databricks Cluster Management	Mock Interviews
Databricks – Batch Processing	
Introduction to Azure	

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INTRODUCTION TO BIG DATA

- What is Data?
- What is Database?
- What is Big Data?
- What are the challenges of Big Data?
- Why Traditional Databases Doesn't handle Bigdata

INTRODUCTION TO HADOOP

- What is Hadoop?
- How Hadoop overcomes bigdata challenges
- Hadoop Architecture
- Hadoop Daemons
- HDFS
- YARN
- MapReduce

INTRODUCTION TO SPARK

- Spark Architecture
- Spark internals
- Spark RDD
- Spark Data Frame
- Spark Streaming

INTRODUCTION TO DATABRICKS

- What is Databricks?
- Databricks Architecture
- Working in Databricks workspace
- Working with Databricks notebook

WORKING WITH DEATRICKS FILESYSTEM - DBFS

- What is DBFS?
- DBFS commands - mkdirs , cp , mv , head, put, rm , rmdir
- How to handle multiple files in DBFS
- How to process the files in DBFS
- How to archive the files in DBFS

DATABRICKS -SPARCK CORE

- RDD Programming
- Operations on RDD
- Transformations- Narrow

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- Transformations -Wide
- Actions
- Loading Data and Saving Data
- Key Value Pair RDD
- Broadcast variables

DATABRICKS - SPARK-SQL- DATA FRAMES

- Creating Data Frames
- Data Frames internal execution
- Transformations using Data Frame API
- Actions using Data Frame API
- User-defined functions in Spark SQL

DATABRICKS- HANDLE MULTIPLE FILE FORMATS

- CSV Data
- JSON Data
- parquet files
- Excel files
- ORC file format

DATABRICKS UTILITIES

- credentials utility
- Filesystem utility
- Notebook utility
- secrets utility
- widgets utility

DATABRICKS CLUSTER MANAGEMENT

- Creating and configuring clusters
- Managing Clusters
- Displaying clusters
- Starting a cluster
- Terminating a cluster
- Delete a cluster
- Cluster Information
- Types of Clusters
- All-purpose clusters
- Job cluster
- Clusters Mode
- Standard
- High Concurrency
- Autoscaling
- Databricks runtime versions

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DATABRICKS – BATCH PROCESSING

- Historical Data load
- Incremental Data load
- Date Transformations
- Aggregations
- Join Operations
- Window Functions
- Union Operations

INTRODUCTION TO AZURE

- Azure Portal Walkthrough
- What is Subscription?
- What is a Resource Group?
- What is a Resource?
- Overview of Azure Resources / Services
- Azure Data bricks
- BLOB Storage, Data Lake Storage Gen2
- Azure SQL Server, SQL Database
- Key Vault

DATABRICKS INTEGRATION WITH

- Blob storage
- Azure Data Lake storage gen2
- Azure SQL Database
- Synapse
- Azure Key vault

DATABRICKS – STREAMING API

- What is streaming?
- Process streaming using Pyspark API
- Handling bad records
- Stream data into Gen2lake
- Load the data into Tables

DATABRICKS – LAKEHOUSE (DELTA LAKE)

- Difference between Data Lake and Delta Lake
- Introduction to Delta Lake
- Features of Delta Lake
- How to create delta table
- How to DML operations in Delta Table
- Merge statements
- Handling SCD Type1 and Type2

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- Handling Data Deduplication in delta tables
- Handling streaming Data in Delta Lake

Delta Lake: Medallion Architecture

- Implement the Bronze Layer (Raw Data)
- Implement the Silver Layer (Cleansed & Transformed Data)
- Implement the Gold Layer (Curated, Business-Ready Data)

WORKFLOWS IN DATABRICKS

- Introduction to workflows
- Create, run and manage Databricks' jobs
- Schedule Databricks jobs
- Monitor Databricks Jobs

AZURE DEVOPS – REPOS

- What are DevOps Repos
- Integrate data bricks notebooks with Repos
- Commit, Sync notebooks to and from Repos

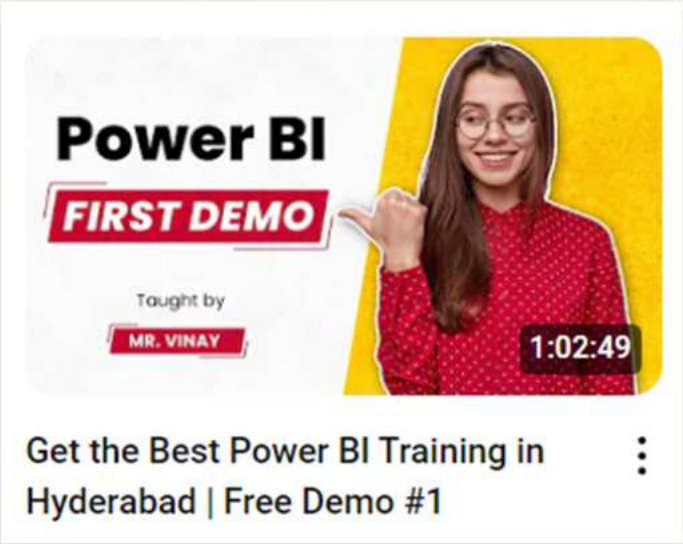
SDLC AND AGILE METHODOLOGY

END TO END DATA MIGRATION PROJECT FROM ON PREMISES TO CLOUD

INTERVIEW QUESTIONS

MOCK INTERVIEWS

A Big Thank you



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