



# MULTI-CLOUD DATA ENGINEERING

## STEP BY STEP APPROACHES TO BECOME A SUCCESSFUL CLOUD DATA ENGINEERING



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Interview Preparation & Job Ready

### WHAT YOU WILL GET AFTER COMPLETION OF THIS COURSE



Course Completion Certificate



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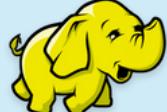


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# Course Curriculum

**1. SQL** 

**2. Python** 

**3. Big Data**  

**Data Warehousing**

**Hadoop / Hive**

**Spark / PySpark**

**4. Cloud**   

**Azure**

**AWS**

**GCP**

**5. CI/CD Pipelines**



## About KSR Datavizon

Welcome to KSR Datavizon, we are your one-stop solution for all trending technologies. We provide in-depth knowledge about all trending courses with 100% placement guaranteed. You also will get hands-on demonstrations, interactive live sessions to learn and grow more on current trending courses like AI, Machine Learning, Data Science, Cloud Computing, Full stack Development, Cyber Security, Credit Risk modelling, DevOps, Azure, AWS, Power BI, Web Development, Data Engineer, ADF, MSBI and Snowflakes and many more

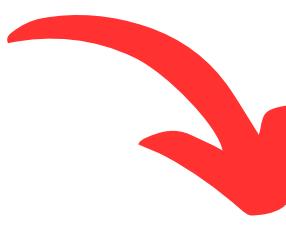
You also get career guidance, soft skills sessions and resume building and all other interview tips to get settled in your dream career

## About Structured Query Language (SQL) for Data Engineering

SQL for Cloud Data Engineering is an essential course designed to teach students how to use SQL effectively in cloud environments. It focuses on leveraging cloud-based databases such as AWS, GCP, and Azure SQL to manage, query, and analyze large-scale datasets.



**ROADMAP AND TOP SKILLS  
FOR MULTI-CLOUD DATA  
ENGINEERING IN 2025 TO  
GET A HIGH PACKAGE**



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# SQL SQL

## Course Curriculum:

- **Introduction to SQL**
- **Popular Databases – MySQL**
- **MySQL Installation**
- **SQL Basics**



- Database / Tables
- DDL, DML, DCL, TCL

- **SQL Constraints**



- Not Null
- Primary Key
- Foreign Key
- Default
- Check
- Unique

- **SQL Datatypes**

- **SQL DQL**



- Select/Group By / Having / Order By

- **SQL Joins**



- Inner Join, Left Join, Right Join, Full Join, Self-Join, Cross Join



# SQL SQL

## Course Curriculum:

- **SQL Advanced Queries**
- **SQL Window Functions / Analytical Functions**
- **SQL CTE / Hierarchical Queries**
- **SQL Sub Queries**
- **SQL Views**
- **SQL Index**
- **PL SQL**



- SQL vs PLSQL
- Procedures
- Functions
- Triggers

- **SQL Project**
- **SQL Data Engineering Use Case**



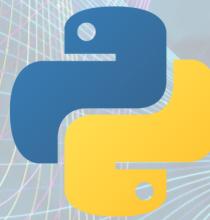


# About Python

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation.

Python is dynamically type-checked and garbage-collected. It supports multiple programming paradigms, including structured (particularly procedural), object-oriented and functional programming. It is often described as a "batteries included" language due to its comprehensive standard library.





# Course Curriculum:

- **Introduction**



- History & Features of Python
- Python vs Other Programming languages
- First Python Program
- Python Basic Syntax
- Installation to Anaconda
- Usage to Jupyter Notebook

- **Python Variables**
- **Python Datatypes**
- **Python Functions**
- **Python Collections**



- List
- Tuple
- Dict

- **Python Operators**
- **Python Flow Control & Loops**

- If / elif/ Else/ For Loop / While Loop



**Python**

# Course Curriculum:

- **Python Libraries**



- Pandas
- Numpy
- Math & Scipy
- Date / Time

- **Python Files I/O**

- **Advanced Python**

- Lambda Functions
- List Comprehension

- **Python Exception Handling**

- **Python Object Oriented Programming**



- Classes
- Inheritance
- Abstraction



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## Big Data

# About Big Data

Big Data is about managing and processing very large amounts of data that traditional tools can't handle. It involves using tools like Hadoop and Spark to store, process, and analyze data efficiently. This helps businesses make better decisions using insights from massive datasets.



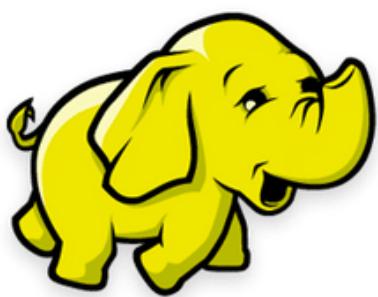


## Course Curriculum:

- **Introduction to Traditional Data ware Housing**
- **OLAP Vs. OLTP**
- **Data Modelling**
- **ETL vs ELT**
- **Traditional Dataware house problems**
- **Bigdata**
  - Introduction to Big Data
  - Growth of Big Data
- **Hadoop as a Solution**
  - Hadoop Architecture
  - HDFS & MapReduce
  - Hadoop 1.X & Hadoop 2.X
  - Hive
- **Limitations of Hadoop**
- **Spark**
  - Spark vs Hadoop
  - Introduction to Spark
  - Key components of Spark

# Course Curriculum: Big Data

- Spark Architecture
  - RDD
  - DAG
- PySpark
- Introduction to PySpark
- Introduction to PySpark Data Frames
  - Working with Data Frames
  - Data frame Operations
  - Spark SQL Functions



**PySpark**



## Cloud Computing

# About Cloud Computing

Cloud Computing is the delivery of computing services—such as servers, storage, databases, and software—over the internet ("the cloud"). It allows users to access and use resources on-demand without owning physical infrastructure. Popular providers include AWS, Microsoft Azure, and Google Cloud.





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**Cloud**

# Course Curriculum:

- **Introduction to Cloud Computing**

- Problems in Traditional Storage /Processing Systems
- Cloud Computing as Solution
  - IaaS
  - PaaS
  - SaaS

# AZURE



- **Introduction**

- Introduction to Azure
- Azure free account
- Azure Portal
- Azure Services & Applications

- **Azure Services**

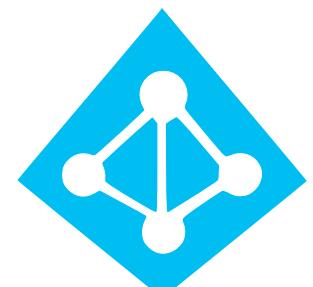
- Azure Storage
  - Azure Blob Storage
  - Azure Data Lake Store Gen II
  - Azure Storage Explorer
  - Blob vs ADLS



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**Cloud**



# Course Curriculum:

## ➤ Azure SQL Database

- Onprem vs Cloud SQL Database
- How to create SQL Database instantly?
- Azure Data Studio

## ➤ Azure Data Factory (ADF)

- What is Data Factory?
- Data Factory Components
- Data Factory - Pipelines
- Data Factory - Activities
- Data Factory - Linked Services
- Data Factory - Datasets
- Data Factory - Triggers
- Data Factory - Dataflow
- Data Factory - Parameters
- Data Factory – Monitoring
- Real Time Use Case / Pipelines

## ➤ Azure Data Directory (ADD)

- Azure AD vs On-Premises AD
- Creating Tenant
- AAD Roles and Permission



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# Course Curriculum:

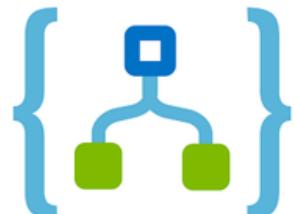
## ➤ Azure CosmosDB

- Introduction to NoSQL Database
- Onprem NoSQL Databases
- MongoDB Demo Queries
- CosmosDB Service Creation
- CosmosDB Queries / Integration



## ➤ Azure Logic Apps

- Logic Apps vs Power Automate
- Logic App Features
- Logic App Use cases
- Logic App Pipeline Examples



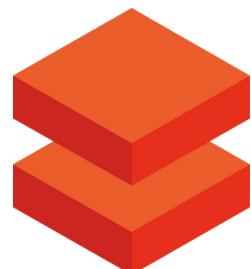
## ➤ Azure Key Vaults

- Key Vault Components
- Key Vault Use Cases



## ➤ Azure Data Bricks

- Introduction to Databricks
- History of Databricks
- Data Bricks with GCP / AWS / Azure
- Data Bricks Components
- Data Bricks Notebooks





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# Course Curriculum:

- Clusters and Jobs
- Databricks Workflows
- Data Bricks Scope
- Data Bricks - Storage Integration
- Unity Catalog
- Delta Lake
- Delta Tables

## ➤ Azure Synapses

- Synapses Architecture
- Synapses Components
- Synapse Studio
- Data Ingestion and Processing in Synapses
- Server less vs Dedicated Server



## ➤ Azure IoT Hub

- Creating IoT Hub
- Registering IoT Devices
- Integrating with Azure Stream Analytics





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# Course Curriculum:

- Azure Stream Analytics
  - ASA Components
  - Setting up ASA
  - Real-time Streaming Pipeline Example
- Azure HD Insight (Basics)
- Azure Functions (Basics)

- **End to End Project**

- Project 1 (Health Care)
- Project 1 (Retail)



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## Course Curriculum:

# AWS

- **Introduction to AWS**
- **AWS Account Setup**
- **AWS Documentation / Navigations**
- **AWS Services**
  - Amazon S3
  - Amazon RDS (Relational Database Service)
  - AWS Glue
  - AWS IAM
  - AWS Step Functions
  - AWS Secrets Manager
  - AWS Lambda
  - AWS EMR
- **End to End Demo Pipelines in AWS**



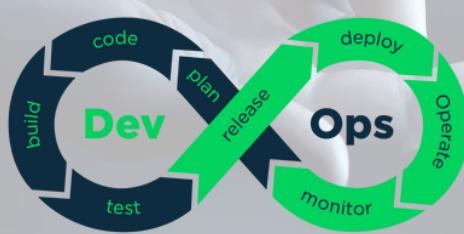
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## Course Curriculum:

# GCP

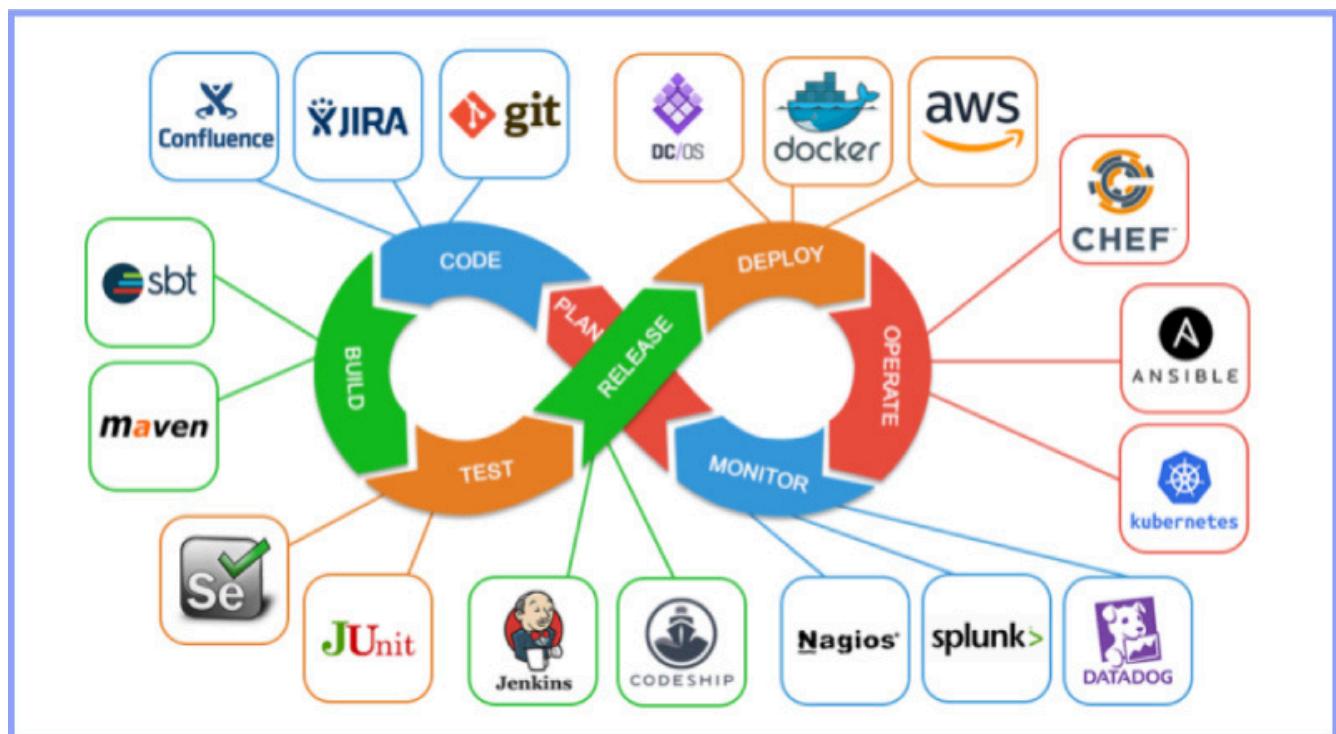
- **Introduction to GCP**
- **GCP Account Setup**
- **GCP Documentation**
- **GCP Services**
  - Cloud Storage
  - Big Query
  - Cloud SQL
  - Cloud Identity / IAM
  - Cloud Functions
  - Secret Manager
- **End to End Sample Pipelines in GCP**



# CICD Pipelines

## About CICD Pipelines

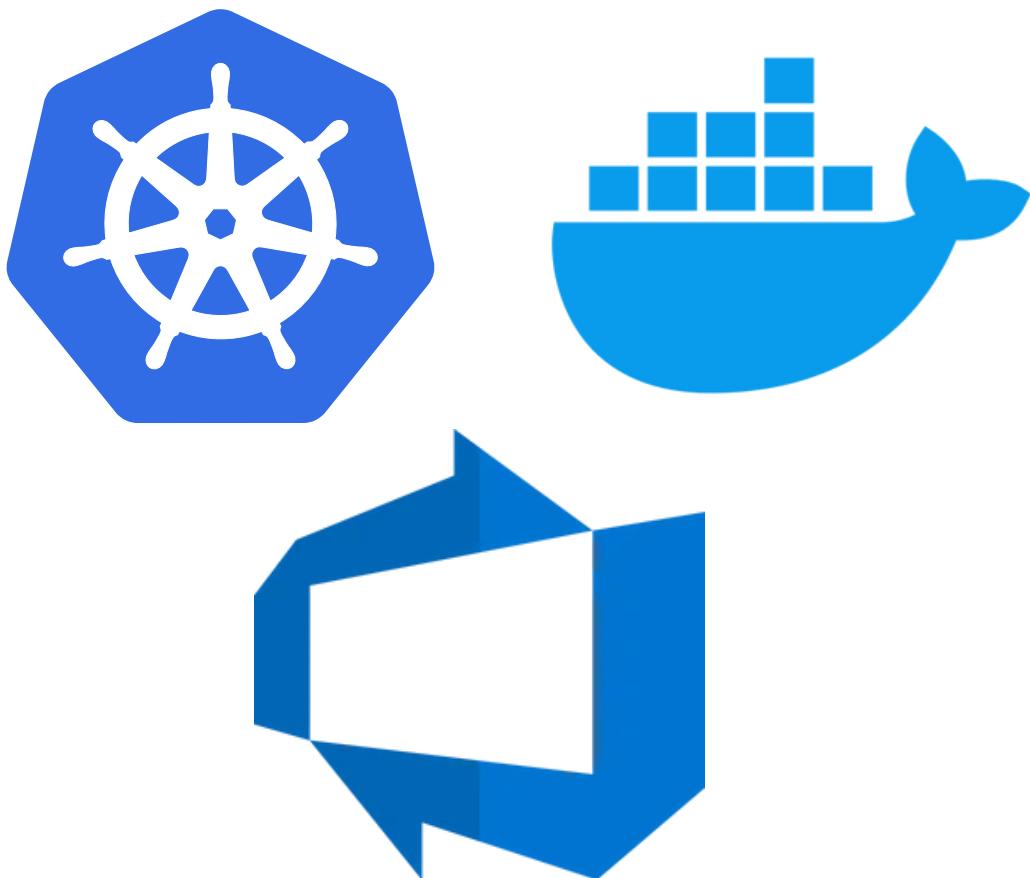
CI/CD Pipelines are automated workflows that help developers build, test, and deploy code faster and more reliably. CI (Continuous Integration) ensures code changes are merged and tested regularly, while CD (Continuous Deployment) automates delivering updates to production. Tools like Jenkins, GitHub Actions, and GitLab CI/CD are commonly used to create these pipelines.





# Course Curriculum:

- What is DevOps?
- What is CICD Pipeline?
- Stages of CICD Pipeline
- GIT/GitHub
- Environmental/Configuration Setup
- End to End CICD Pipeline



## OUR PLACEMENTS



**Mr . Srikanth Reddy k**  
Data Analyst  
**HCLTech**



**Mr . Sagar Singh**  
Bi Developer  
**LogicAngle**



**Mr . Chintamani**  
Data Analyst  
**BURNS  
MCDONNELL**



**Mr .Hemasundar Reddy k**  
Data Analyst  
**SONATA**  
SONATA SOFTWARE



**Mr .Sanjay Kumar**  
Data Scientist  
**LANDMARK  
GROUP**



**Mr .Pulkit**  
Business Analyst  
**Deutsche Bank**



**Mr .Akhil**  
Data Scientist  
**LANDMARK  
GROUP**



**Mr .varun**  
Business analytics  
**LANDMARK  
GROUP**



**Mr .Manikanta**  
Data Engineer  
**DHL**



**Mr .Mahesh GR**  
Data Scientist  
**LANDMARK  
GROUP**



**Mr .Meher Kumar**  
Bi Developer  
**pwc**



**Mr .Prasanna**  
Business analytics  
**LANDMARK  
GROUP**

## OUR PLACEMENTS



**Mr .Manoj Mehra**

Data Analyst

 **trueblue**  
the people company



**Mr .Suhas**

Business analyst  
 **carelon**  
Behavioral Health



**Mr .Satish Kumar**

Business analyst

 **WNS**  
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**Mr .Inturi Babu**

Data analyst

 **Mindtree**  
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**Mr .Mehala Rasu**

Data Engineer

 **QUADRA SYSTEMS**



**Mr .Shrinjay Soni**

Data analyst

 **TECH mahindra**



**Mr .Vijay Bhaskar**

Data analyst

 **iG** Match Group



**Mr .Naresh Kumar**

Data analyst

 **IBM**



**Mr .Punithraj**

Data analyst

 **MNC**



**Mr .Nishith**

Data analyst

 **MNC**



**Ms .Deepthi**

Data analyst

 **MNC**

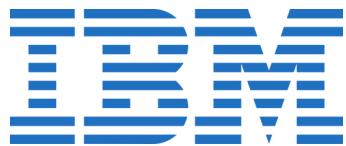


**Mr .Devendra Reddy**

Snowflake Developer

 **LatentView**  
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**R.J.Gardens, Anand Nagar, Aswath Nagar,  
Marathahalli, Bengaluru, Karnataka 560037**



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