

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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GCP DATA ENGINEERING

Introduction to Google Cloud Platform (GCP)

- Overview of GCP Services and Products
- GCP Architecture and Regions
- Billing and Pricing Overview

GCP Fundamentals for Data Engineers

- Cloud Storage on GCP (Cloud Storage, Cloud SQL, Bigtable)
- Compute Engine and Kubernetes Engine
- Networking in GCP (VPCs, Load Balancing)

Data Storage and Management on GCP

- Cloud Storage Options (Cloud Storage, Cloud Bigtable, Cloud Spanner)
- Datastore and Firestore for NoSQL Data
- Introduction to BigQuery for Data Warehousing

Data Processing and Transformation

- Introduction to Dataflow for Stream and Batch Processing
- Apache Beam and Dataflow Programming Model
- Transforming Data with Dataflow Pipelines

Data Integration and ETL on GCP

- Introduction to Cloud Pub/Sub for Messaging
- Using Cloud Dataflow for ETL Pipelines
- Data Transfer Service and Import/Export

Advanced Data Analysis and Machine Learning on GCP

- BigQuery ML for Machine Learning Models
- AI Platform for Model Training and Deployment
- Data Visualization with Data Studio

Monitoring, Logging, and Security in GCP

- Stackdriver for Monitoring and Logging
- Identity and Access Management (IAM)
- Data Security and Compliance on GCP

Data Engineering Best Practices

- Designing Scalable and Cost-efficient Architectures
- Performance Optimization Techniques
- CI/CD Pipelines for Data Engineering Workflows

Real-world Applications and Case Studies

- Implementing GCP Data Solutions in Different Industries
- Best Practices and Lessons Learned
- Project or Case Study Presentation