

# Machavarapu Suresh

## GCP Data Engineer

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## WORK EXPERIENCE

### Capgemini Technology Services Ltd

MAR 2022 – Present

- Results-driven GCP Data Engineer with 3 years and 9 months of hands-on experience in designing, building, and optimizing scalable data pipelines and workflows for advanced analytics.
- Adept at implementing cost optimization strategies, ensuring efficient resource utilization.
- Committed to delivering high-quality, scalable solutions that drive business insights and decision-making.
- Developed and optimized BigQuery PL/SQL scripts, views.
- Built PySpark jobs for efficient data migration from Google Cloud Storage (GCS) to BigQuery.
- Created Python scripts to interact with GCP services.
- Scheduled and orchestrated on-premises data migration jobs using Control-M software.
- Designed and Automated Juniper data pipelines to seamless data ingestion and analytical processes.
- Setup GCP linux VM for GCP recommendations app and interact with Gemini GEN AI model for responses.
- Developed GCP looker dashboard for strategic data feed (SDF)

## EDUCATION

M-Tech in TRANSPORTATION | SEPTEMBER 2015 | NIT Hamirpur, HIMACHAL PRADESH | 8.16

Ph.D. in TRANSPORTATION | JANUARY 2021 | NIT Agartala, Tripura | 9.31

## PROJECT

### OPS ANALYTICS - HSBC CLIENT

MAR 2022 – May 2024

- Developed and optimized **big query PL/SQL scripts, views**, and complex queries to improve performance and reduce cost.
- Developed **PySpark jobs** to migrate data from GCS to big query (Analytics)
- Created **Python scripts** as per requirements like getting GCS bucket details, to list BQ datasets, tables and columns across the GCP project, etc.

### DBS REFINERY ANALYTICS - HSBC CLIENT

Jun 2024 – Present

- **Control-M:** Scheduled and orchestrated on-premises data migration jobs, transferring data from Windows NAS to Juniper NAS.
- Setup **Windows Sever & Virtual environments** to host python scripts and triggered these jobs using control-m server.
- **Juniper Tool:** Juniper data pipelines designed to ingest data from on-prem sources (MSSQL, Oracle, Juniper NAS) into GCS and subsequently published to BigQuery for analytics. These pipelines automated using Juniper Chronox.
- Developed a **generic Python script** to automate the scheduling of BigQuery procedures using Juniper ChronoX.
- Exported **BigQuery logs** into big query tables to analyze cost optimization and usage analysis.
- Created **shell script** to automate the service account key auto rotation and store it in secret manager.
- Setup GCP Linux VM for GCP recommendations app and interact with Gemini GEN AI model for responses.
- Developed GCP looker dashboard for strategic data feed (SDF)
- Implemented **change orders** for production deployments.
- Documented processes using **confluence** and created **Jira templates** to raise work requests.

## SKILLS

Languages: PL/SQL, PySpark, Python, Linux commands

Databases: BigQuery, Cloud SQL

GCP Services: GCS, Dataproc, VMs, Composer, Vertex AI (Gemini Model), looker studio, ETL, Logging, BQ Sinks, IAM.

Others: GitHub, WinSCP, Confluence, Jira

## Achievement

GATE Rank, Certifications: Associate Cloud Engineer and GCP Professional Data Engineer.