Sudheer Bandaru

GCP |BigQuery | Python

Phone: +91 8074941011 Email: sudheerbandaru34@gmail.com

Profile Summary

Result-driven Software Engineer with 5 years of experience building data solutions on Google Cloud, specializing in BigQuery and Python. Skilled in optimized BigQuery SQL, partitioned and clustered table design, data modelling, and Python-based pipelines and Airflow DAGs on Cloud Composer. Experienced in migrating on-premise warehouses to BigQuery and tuning for performance and cost, with a keen interest in bringing AI into data workflows.

Technical Skills and Knowledge

- **Python & SQL:** Python, PySpark, Python scripting & automation, BigQuery SQL, MySQL, SQL Server, Teradata
- **BigQuery:** Partitioning & Clustering, BigLake, Views, Data Modelling, SCD Type 1/2, Query & Cost Optimization
- **Google Cloud:** GCS, Cloud Composer, Dataflow, Dataproc, Cloud SQL, Cloud Functions, Cloud Monitoring
- **Orchestration, DevOps & Visualization:** Apache Airflow, Git, GitHub, CI/CD, Looker, Power BI
- **Other Tools & AI:** Kafka, DBT, Snowflake, Databricks, Azure Data Services

Professional Work Summary

KPIT Technologies ltd - Software Engineer (GCP - BigQuery and Python) - Bengaluru | Jul 2021 – Jun 2026

HONDA - ADAS & VEHICLE TELEMETRY OPERATIONAL DATA PLATFORM

Project Overview:
Built Python and BigQuery pipelines for ADAS and vehicle telemetry data, integrating automotive logs and enterprise sources into a BigQuery-based platform for validation and analytics.

Key Contributions:

- Developed Python (PySpark) jobs on Dataproc to clean, standardize, deduplicate, validate, and enrich automotive telemetry data
- Created BigQuery external tables over Parquet files using BigLake, and validated transformation logic with BigQuery SQL
- Partitioned and clustered BigQuery tables by vehicle and date, making queries faster and cheaper
- Built 35+ scheduled and incremental pipelines as Python Airflow DAGs in Cloud Composer, meeting processing SLAs
- Implemented SCD Type 1 and Type 2 to track history across vehicle, test, configuration, and validation data
- Added data quality checks and alerts with Cloud Monitoring, so bad or missing telemetry data was caught early

NESTLE USA - DIGITAL YWIN CLOUD MIGRATION (MATRIX PROJECT)

Project Overview:
Moved Nestle's liquid beverages data platform from Teradata to Google Cloud and BigQuery, covering sourcing, production, delivery, and demand planning. The new pipelines handle 500GB+ of data a day and cut operational costs by 25%.

Key Contributions:

- Led migration of 200+ tables (2TB+) from Teradata to BigQuery with zero data loss
- Optimized BigQuery SQL queries and table design so key workloads ran significantly faster
- Built 40+ Python pipelines on Dataflow and Cloud Composer, loading 500GB+ daily into BigQuery
- Implemented SCD Type 1 and Type 2 on 20+ BigQuery dimension tables, keeping 5+ years of history
- Streamed Kafka data into BigQuery for near real-time processing
- Added data validation and quality checks to keep data 100% accurate across 10+ business areas
- Cut operational costs by 25% by moving the data platform to Google Cloud
- Set up logging and alerts, keeping production downtime under 0.1%
- Supported UAT for 15+ business scenarios, with a 98% pass rate

Education

Bachelor of Technology (B.Tech) – Electronics & Communication Engineering (ECE) | JNTUA-VITS | Andhra Pradesh | 2016 - 2020

Technical Expertise

- BigQuery SQL Development & Query Optimization
- Python Data Pipelines and Automation
- Teradata to BigQuery Migration
- Real-time Data Streaming (Kafka > BigQuery)
- Workflow Orchestration (Airflow and Cloud Composer)

Achievements

- **Manager Discretion spot Award (2025)** – Recognized for contributions to data pipeline development, ETL processes, and delivering project requirements on time.
- **The Comrades and High Flyer Award (2023 and 2024)** – Recognized for strong ownership, effective collaboration, and consistent delivery of key responsibilities.