POORNESH SARAVANAN
DATA ENGINEER

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EDUCATION

ANNA UNIVERSITY - MIT   Chennai, IND
Bachelor of Engineering   July 2019 - May 2023
Major in Electronics and Communication;
Cumulative GPA: 8.9/10;

WORK EXPERIENCE

ACCENTURE   Sep 2023, Pune – Today
Data Eng, Mgmt and Governance Analyst   Sep 2023 – Today

On Prem to GCP Migration project - Banking sector(UK)   2024
- Built a new batch ingestion framework using Dataflow (Python) to streamline file ingestion from GCS to BigQuery
- Made key enhancements to spark – based ingestion framework, improving date handling, reconciliation updates and overall reliability
- Diagnosed and fixed file-related issues in shell scripts, improving automations and reducing failures.
- Designed and developed many end-to-end data pipelines for ingestion, curation and consumption layers with Cloud composer (Airflow), Dataproc (pig, spark) and Google cloud storage (GCS)

ETL Management project - Media and Communication sector(US)   2025
- Built ETL pipelines to journal(SCD/CDC) data from native Oracle/Postgres DB's to Warehouse. This involves analysis, development of schema/tables and QA.
- Worked with Minio(S3 formatted OnPrem storage solutions) and hive tables to build a warehouse. And with homegrown ETL tools for job scheduling and loading.
- Managed jobs that ran on provisioned servers through spark clusters.
- Built a Log-Extraction Pipeline for Spark logs with python.

TCO - Media and Communication sector(US)
- Worked on AWS CUR(Cost and usage Report) data to enable the cost analysis and report on the usage across the organization.
- Used Databricks for data ETL of CUR, and set up Amazon Quicksight for Dashboard.
- Built a simplified AWS cost calculator API using AWS Lambda and API Gateway

OTHER EXPERIENCE & PROJECTS

Machine Learning Approach for Soil Nutrient Prediction   2023
- Did study on soil samples across Tamil Nadu and developed a ML model to predict nutrients.
- Published Research Paper - https://ieeexplore.ieee.org/document/10405095/

IOT - LORAWAN TECH   2023
- Worked with LoRaWAN (Long Range Wide Area Network) modules to understand and implement it in real-time IOT projects
- Published Research Paper - https://ieeexplore.ieee.org/document/10156966

OTHER PROJECTS - GITHUB : <u>https://github.com/poornesh4559</u>

SKILLS

- BIG DATA - SQL, Apache Spark(python, scala), BigQuery, Databricks, Airflow, Cloud Storages, UNIX.
- CLOUD - AWS : S3, Athena, Lambda, API Gateway, QuickSight, Glue. GCP : Dataproc, Dataflow, GCS, Composer.
- Git, Python, Scala, Shell Script