MANIKANTA POCHAMALLA

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SUMMARY

Results-driven Data Engineer with over 3 years of experience designing, building, and optimizing data ecosystems across logistics and autonomous vehicle domains. Proficient in developing end-to-end data pipelines, orchestrating workflows, and enabling advanced analytics using AWS, Snowflake, and BigQuery. Skilled in Python, Spark, Airflow, and DBT with a proven record of improving data reliability, automating processes, and enabling data-driven decision-making.

TECHNICAL SKILLS

Programming: Python, SQL
Cloud Platforms: AWS (S3, EMR, Lambda, Glue), GCP (BigQuery)
Data Engineering: ETL Pipelines, Data Lakes, Data Warehousing (Snowflake, BigQuery)
Orchestration: Airflow, DBT
Big Data Processing: Spark, Kafka
Visualization: Looker, QuickSight
Version Control & DevOps: Git, CI/CD, Docker
Concepts: Data Modeling, Data Governance, Metadata Management, DataOps

PROFESSIONAL EXPERIENCE

Gatik AI – Data Engineer | Feb 2023 – Present
 • Designed and deployed scalable data ingestion pipelines for autonomous vehicle sensor and telematics data using Python and AWS S3.
 • Enhanced Snowflake data warehouse models for analytics, ML training, and reporting, improving query performance by 30%.
 • Built ETL pipelines in Airflow and DBT ensuring reliable and timely data delivery across analytical systems.
 • Implemented Spark jobs on AWS EMR to process 10TB+ of sensor data weekly for real-time analytics.
 • Developed automated data quality validation scripts in Python, reducing inconsistencies by 25%.
 • Led Kafka adoption for streaming data, improving event processing latency by 40%.
 • Mentored junior engineers on SQL optimization and data modeling best practices.

Deliverr – Data Engineer | Oct 2021 – Aug 2022
 • Built and maintained complex ETL workflows with Python and Airflow to integrate logistics data into BigQuery.
 • Created dimensional data models supporting large-scale analytics, improving report latency by 20%.
 • Engineered SQL transformations powering Looker dashboards used by 200+ business stakeholders.
 • Introduced automated pipeline validation frameworks reducing manual checks by 35%.
 • Processed multi-terabyte datasets using Spark for route optimization and predictive inventory analytics.
 • Collaborated with data science teams to deliver ML-ready datasets for last-mile logistics optimization.

KEY PROJECTS & ACHIEVEMENTS

 • Architected an automated data ingestion and validation framework for 500+ autonomous vehicles at Gatik AI, boosting ML data availability.
 • Developed Kafka-powered real-time logistics dashboard enabling near-instant visibility into KPIs.
 • Created Python-based data quality monitoring framework reducing reporting discrepancies by 30%.

EDUCATION

M.S. in Computer Science – Campbellsville University | GPA: 3.7 | Aug 2024