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Summary

Data Engineer with 2+ years of experience building data platforms for robotics fleets. **Owned an analytics platform from scratch** (serving executives, ops, success, support, and clients) and **co-developed a monitoring backend** with 200+ users, 40+ fleets, and 120+ AMRs. Skilled in Python, SQL, FastAPI,; delivered telemetry pipelines, KPI automation (cut reporting by 80%), and dashboards that reduced troubleshooting time by 40–75%.

Skills

Programming: Python (pandas, scikit-learn, FastAPI), SQL, Shell

Data Engineering: ETL, REST APIs, ZMQ, Redis, MongoDB, Grafana, Docker

Cloud/Infra: AWS (EC2, S3, RDS), Git, CI/CD

Analytics/ML: EDA, KPI Engineering, Machine Learning

Experience

Senior Data Engineer — Ati-Motors, Bengaluru

Apr 2025 – Present

- Repurposed earlier Grafana dashboards into a full **analytics platform**, delivering insights to top management and internal teams such as Customer Success, Support, and Sales.
- Built a **robust telemetry pipeline** (ZMQ) to ingest high-fidelity AMR sensor data, improving data availability and enabling predictive analytics initiatives.
- **Developed and formalized key performance metrics**, ensuring consistent tracking and allowing leadership and operations teams to make data-driven decisions.
- Automated KPI reporting, cutting manual effort by **80%**; standardized metrics improved accuracy by **30%**.
- Mentored **3 interns**, guiding the implementation of dashboards and data pipelines.

Data Engineer — Ati-Motors, Bengaluru

Sep 2023 – Mar 2025

- **Co-developed the backend monitoring platform** adopted by 200+ users, tracking 120+ AMRs across 40+ fleets.
- Integrated **Grafana dashboards** into the FastAPI backend, improving visibility and reducing downtime by **25%**.
- Reached **75% adoption** of the monitoring platform, reducing incident response times by **40%**.
- Deployed Fleet Manager on **Raspberry Pi 5**, replacing Intel NUC/AWS demos and saving **60%+ costs**.

Data Intern — Ati-Motors, Bengaluru

Feb 2023 – Jul 2023

- Optimized SQL queries, improving reporting efficiency.
- Designed **Streamlit dashboards**, increasing data accessibility for engineering teams.

Education

B.Tech. in Computer Science — Amrita Vishwa Vidyapeetham

Jul 2019 – May 2023

CGPA: 7.88

Leadership: Student mentor for 2 batches (20 students).

Extracurriculars: Member of inter-college cultural teams (multiple recognitions).

Projects

Real-Time Transport Analytics Pipeline — [GitHub](#)

Aug 2025

- Lightweight pipeline for experimenting with real-time transport data ingestion and monitoring.
- Built simple dashboards and reports to explore operational visibility.

AI-Powered Command Line Assistant — [GitHub](#)

May 2025

- CLI assistant to run natural-language prompts in terminal workflows.
- Integrated multiple models as a learning experiment in AI-driven developer workflows.

Certifications & Publications

Data Scientist Certificate — Datacamp

Apr 2025

datacamp.com/certificate/DS0026252232246

Spatio-temporal Feature-based Weapon and Violence Detection

Oct 2023

Loakeshwaran SK, **Siddharth Shanker M**, Venkataraman M, Sukrith

ieeexplore.ieee.org/document/10290433