

Praveer Nagaraja Byndoor

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WORK EXPERIENCE

Software Engineer, Coditas Solutions LLP — *E-commerce & Healthcare Data Operations* Aug 2022 – Dec 2024 | Pune, India

- Established **data pipelines on GCP** (Pub/Sub, Cloud Scheduler) integrating **11+ external APIs**, processing 5K–10K daily transactions with real-time monitoring and alerting.
- Implemented automated data validation workflows in **Python (Pandas, NumPy)** processing **50K+ records daily** — reaching 99.5% accuracy and cutting discrepancies ~60% via anomaly detection.
- Engineered payment reconciliation logic across **50K+ financial records daily** using SQL and Java, applying transformation and validation rules.
- Reduced **MySQL query response times by 25%** through performance tuning, window functions, CTEs, and strategic indexing.
- Built a **HIPAA-compliant healthcare reporting platform** serving 1K+ users through 15+ data APIs for patient analytics and PHI security.
- Maintained technical documentation for data workflows and pipeline configs, supporting team knowledge transfer within **Agile/Scrum** delivery.

PROJECTS

NYC Yellow Taxi — Cloud Data Warehouse & BI Analytics Snowflake, ELT, dbt-style modeling

- Architected an end-to-end **ELT pipeline on Snowflake** ingesting **2.96M trip records** through a 3-layer architecture (Raw → Staging → Star Schema).
- Designed a **Kimball dimensional model** with 1 fact and 4 dimension tables across 262 zones, supporting multi-dimensional revenue analysis.
- Engineered 10+ SQL transformations for null handling, deduplication, and quality filters — removing **92K noisy rows** and surfacing \$78.5M in monthly revenue insights.

ProAg Analytics Platform — *2nd place, data competition* Python, Streamlit, anomaly detection

- Developed a financial analytics pipeline in **Python (Pandas, SQLAlchemy)** unifying **10+ data sources** and 34K rows into a SQLite warehouse with 96% cycle-match accuracy.
- Implemented **z-score anomaly detection** flagging feed costs 331% above normal, quantifying \$5.76M revenue and \$157.72 avg net margin/head.
- Delivered an interactive **Streamlit dashboard** with automated PDF reporting via ReportLab for stakeholder review.

Weather Alert Notifier — *serverless AWS* Lambda, DynamoDB, SNS, EventBridge

- Architected a fully **serverless alert pipeline on AWS** (Lambda, DynamoDB, SNS, EventBridge, API Gateway, S3) with zero server management.
- Engineered a Python Lambda integrating the **OpenWeatherMap REST API** to evaluate severity thresholds and trigger scheduled SNS notifications every 15 minutes.
- Deployed an **event-driven pub/sub architecture** with a DynamoDB user registry on on-demand capacity and an S3-hosted status dashboard.

TECHNICAL SKILLS

Data Engineering — ELT/ETL pipelines, dimensional modeling, star schema, data warehousing, data quality, deduplication, data lineage, pipeline monitoring, Parquet

Databases & SQL — Snowflake, MySQL, PostgreSQL, window functions, CTEs, stored procedures, query optimization, indexing, EXPLAIN analysis

Cloud — GCP (Pub/Sub, Cloud Scheduler, App Engine), AWS (Lambda, DynamoDB, SNS, EventBridge, API Gateway, S3), serverless, event-driven pipelines, Docker

Programming — Python (Pandas, NumPy), SQL, Java, R, Git/GitHub, REST APIs, Jupyter, Agile/Scrum, Jira

Time-Series & IoT — InfluxDB 2.7, Flux queries, time-series schema design, retention policies, Grafana

Visualization & ML — Tableau, Power BI, LOD expressions, KPI development, scikit-learn, anomaly detection, feature engineering

EDUCATION

Syracuse University, School of Information Studies — *M.S., Information Systems* | GPA 4.0 Expected Dec 2026 | Syracuse, NY
Coursework: Applied ML, Database Management, Big Data Management & Data Warehousing, Visual Analytic Dashboards.

Visvesvaraya Technological University — *B.E., Chemical Engineering* | GPA 3.5 Jul 2022 | Bengaluru, India

CERTIFICATIONS

- Certificate of Advanced Study: Applied Data Science — Syracuse University (Dec 2025)