

Aishwariya Alagesan

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*Data Analytics Engineer with 3+ years of experience analyzing complex datasets and building **Tableau** dashboards, **SQL** queries, and cloud-based pipelines. Skilled in delivering actionable insights in **fintech** and **healthcare** domains.*

Education

Northeastern University

Master of Science in Data Analytics Engineering (GPA – 3.9/4.0)

Boston, MA

Sep 2023 - May 2025

Relevant courses: Data Management, Computation and Visualization, Machine Learning Operations, Data Mining.

Work Experience

Temenos Pvt Ltd

Analytics Product Engineer

Chennai, TN

Jan 2022 – Jul 2023

- Automated data transformation of 100K+ banking records using **Airflow** pipelines on **AWS**, reducing manual ETL effort.
- Deployed interactive **Tableau** dashboards tracking 5+ KPIs for 13 branches and account officers, which decreased manual reporting efforts by 60% and enhanced real-time operational performance tracking.
- Conducted financial analysis on 500+ high-value transactions using advanced **SQL** and **Excel** functions (VLOOKUP, Pivot Tables), identifying discrepancies and achieving a 90% error-free rate that strengthened audit readiness.
- Evaluated **A/B test** outcomes across 5 financial KPIs (e.g., transaction volume, average balance, loan application rate), providing insights that drove a 10% uplift in digital product adoption and improved operational efficiency.

Product Engineer

Jan 2021 – Dec 2021

- Resolved 100+ critical product defects in **JBase**, collaborating with teams to reduce client issues and improve reliability.
- Collaborated with cross-functional teams, including Product, Engineering, and QA, in an **Agile** environment (via Jira), contributing to delivering defect solutions and workflows that drove a 15% increase in user adoption.

Cognizant Technology Solutions

Data Analyst

Chennai, TN

May 2020 – Oct 2020

- Analyzed 40 K+ medical insurance claims using **SQL**, optimizing claims processing strategies, and reducing denial rates.
- Developed dashboards in **Tableau** to monitor adjudication trends, improving transparency in payer reimbursements.
- Created custom **calculated fields** to assess billing efficiency, contributing to a 15% improvement in claims resolution time.
- Collaborated with stakeholders to define key metrics, ensuring accurate tracking of claim processing performance.

Academic Projects

Impact of Covid-19 on Emergency Room Utilization using OSHPD Data (Python, SQL, Tableau) Apr 2025 - May 2025

- Spearheaded the analysis of 5 years of California ER utilization data (100K records) using **SQL**, **Pandas**, and **BigQuery**, driving discovery of critical healthcare service patterns during and after the COVID-19 pandemic.
- Engineered features like mortality rates across 300+ hospitals using **CTEs**, window functions, and custom KPIs.
- Built **Tableau** dashboards to visualize ER trends, payer mix, and outcomes, supporting data-driven healthcare decisions.

Health Insurance Claims Analytics Dashboard (Dashboard)

Mar 2025 - Apr 2025

- Developed an analytics pipeline using **AWS S3**, **Snowflake**, **DBT**, and **Tableau** to process 5K+ claims records.
- Created **DBT** models to calculate denial rates, payment ratios, and identify high-risk claims by provider and insurance.
- Built an interactive **Tableau** dashboard with filters to analyze claim outcomes, follow-ups, and procedure-level trends.

End-to-End MLOps Pipeline for Term Deposit Prediction (GCP, Airflow, Docker, BigQuery)

Nov 2024 - Dec 2024

- Built scalable **MLOps** pipeline for bank deposit prediction, achieving 87% accuracy and processing 45K+ records on **GCP**.
- Automated data pipelines using **Airflow** and **Docker**, reducing preprocessing time by 30% and ensuring data validation.
- Implemented **CI/CD** with **GitHub Actions**, enabling faster retraining and maintaining 92% precision and recall.
- Deployed models on **GCP** with monitoring for data drift and fairness, enabling real-time predictions via **Flask API**.

Technical Skills

Programming Languages: Python (Pandas, NumPy, Matplotlib, Scikit-learn), MySQL, SQL Server, PostgreSQL.

Analytics Tools: Tableau, Power BI, Looker Studio, dbt, Excel (VLOOKUP, Pivot Tables, Power Query).

Cloud and Big Data Technologies: AWS, GCP, Snowflake, Redshift, BigQuery.

Certifications: Google Business Intelligence Professional, AWS Cloud Practitioner, Alteryx Designer Core.