

# Saayed Alam

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## SUMMARY

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Data Analyst with 3+ years of experience supporting Fortune 500 clients including Visa, Microsoft, and Google. Background in market research analytics supporting enterprise brand tracking, with hands-on experience in credit risk modeling and consumer trend analysis. Experienced building end-to-end analytical workflows — from data cleaning and modeling to dashboards and executive reporting.

## PROJECTS — SELF-DIRECTED · JAN 2025 – PRESENT

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### Interpretable Credit Risk Scoring — Python · LightGBM · SHAP · Optuna · Tableau [Live Tableau Dashboard ↗](#)

- Built a LightGBM classification model across 5 iterations to predict loan default probability on 300K+ applicants, achieving ROC-AUC of 0.76 on highly imbalanced data (91% non-default)
- Applied threshold tuning (0.5 → 0.25) based on precision-recall analysis, improving defaulter recall from 2% to 22% — reflecting real-world lending logic where missed defaults cost more than false flags
- Generated global and local SHAP explanations to communicate feature impact to auditors and risk managers; exported outputs into 5 Tableau dashboards covering score distributions and risk band analysis

### Medicare Hospital Infrastructure Analysis — SQL · PostgreSQL · Python · Tableau [View SQL Notebook ↗](#)

- Wrote 28 stakeholder-framed SQL queries in PostgreSQL using CTEs, window functions, aggregations, and CASE logic to analyze quality ratings, ownership structures, and emergency service coverage across 6,000+ hospitals
- Identified that rural and tribal hospitals are significantly less likely to offer emergency services; built diverging bar analysis showing state-level deviation from the national average across all 50 U.S. states
- Found that private non-profit hospitals dominate most U.S. facility types while government-run hospitals concentrate in psychiatric and critical access care — delivered as a 5-dashboard Tableau story for healthcare planners and policymakers

### Meditation Trend Pulse — Python · Prophet · PyTrends · Streamlit [Live App ↗](#)

- Built an automated data pipeline ingesting Google Trends data via API daily, processing and versioning 9 cleaned datasets across global trends, country-level interest, and related queries
- Applied Prophet time-series forecasting to project future search interest trends with uncertainty intervals, adding predictive context to descriptive dashboards
- Deployed a multi-page Streamlit app with daily refresh automation — script skips if already run, pushes to GitHub only when new data is available, keeping the pipeline lightweight and reproducible

## WORK EXPERIENCE

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### Ipsos | Data Analyst Toronto, ON · Aug 2022 – Jan 2025

- Led resolution of a high-priority delayed project with VP-level visibility, coordinating across analyst, client services, and data processing teams; directly recognized by management for navigating competing priorities and driving it to completion
- Delivered 30+ survey-based analytics reports per month for Fortune 500 clients including Visa, Microsoft, Samsung, and Subway — managing end-to-end execution from data validation and cleaning through analysis and final delivery
- Selected alongside senior leadership as one of two analysts to support rollout of a Random Forest driver analysis solution; co-developed internal training materials and served as a point of contact for methodology questions during launch
- Built Excel-based templates to validate incoming datasets from the data processing team, saving ~30 minutes per dataset and reducing data integrity issues before the analysis stage

### preCharge | Risk Operations Analyst New York, NY · Jan 2017 – Aug 2019

- Promoted into analyst role within 6 months after improving investigation workflows, reducing case retrieval time by ~50%
- Investigated 40–60 transactions per day using OSINT techniques to validate purchaser identities and reduce fraud exposure for client e-commerce stores
- Identified emerging fraud patterns and presented findings to leadership, influencing client onboarding decisions and risk policy thresholds

## EDUCATION

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### Master of Science in Data Science Jan 2020

CUNY School of Professional Studies · New York, NY

### Bachelor of Science in Applied Mathematics & Computer Science Jan 2018

City Tech, CUNY · New York, NY

## SKILLS

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**Languages & Tools:** Python (pandas, scikit-learn, LightGBM, SHAP, Prophet), SQL (PostgreSQL, BigQuery), dbt, Excel (VBA, Pivot Tables), Salesforce, Git, Jupyter

**Visualization:** Tableau, Power BI, Streamlit

**Analytics:** Data Analysis & Reporting, KPI Tracking, Predictive Modeling, Time Series Forecasting, Survey Analytics, Dashboard Design