

# ARSHAD ALI MOHAMMED

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## SUMMARY

Data Scientist and Financial Analyst with a Master's in Business Analytics (3.9 GPA) and 4+ years of finance operations experience. Builds production-ready predictive models, automated ETL pipelines, and interactive dashboards using Python, SQL, and machine learning. Combines statistical rigor with financial domain expertise to drive measurable business impact—from fraud detection at scale to \$150M+ AR management. Proven track record delivering 15–40% efficiency gains through data-driven automation.

## TECHNICAL SKILLS

**Languages & ML:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, PySpark), SQL (MySQL, PostgreSQL, SQLite), R, K-Means, Cosine Similarity, Feature Engineering, Classification, Regression, Statistical Modeling

**Analytics & BI:** Tableau, Power BI, Advanced Excel (Pivot Tables, VBA, Power Query), Matplotlib, Seaborn, A/B Testing, Hypothesis Testing, Time Series Analysis, Predictive Modeling

**Tools & Platforms:** Git/GitHub, Jupyter, ETL Pipelines, Jira, SAP, Oracle R12, Salesforce CRM, SAS, DAX

## EXPERIENCE

### Data Science Intern – Hetro Global Soft Tech INC

Aug 2025 – Present

- Built predictive classification and regression models using Python and Scikit-learn, improving accuracy by 15% over baseline through hyperparameter tuning and cross-validation
- Developed automated ETL pipelines using Pandas and SQL to clean, transform, and load data from multiple sources, reducing manual preprocessing time by 40%
- Created interactive dashboards in Tableau and Power BI integrating multiple data sources, enabling data-driven decisions across 5+ departments
- Performed exploratory data analysis and feature engineering on large datasets, surfacing actionable patterns for cross-functional stakeholders

### Financial Operations Analyst – ADP

Apr 2021 – Sep 2022

- Designed data-driven backlog management system resolving 1,000+ credit exceptions in one month, boosting team processing efficiency by 25%
- Participated in global finance transformation initiative, performing data analysis in due diligence with 2,000+ stakeholders across multiple regions
- Automated Invoice-to-Cash workflows using SQL, managing 300+ client accounts monthly

### Financial Analyst – United Elevators

Jul 2020 – Mar 2021

- Analyzed vendor payment and cash flow data using SQL and Excel, developing strategies that improved cash flow efficiency by 30%
- Conducted sales trend analysis across 4 market segments using data visualization, contributing to 15% increase in deal volume

### Accounts Receivable Specialist – Dell Technologies

Nov 2018 – Jun 2020

- Managed collections for \$150M+ accounts receivable portfolio, maintaining 100% client retention through proactive communication
- Recovered \$10M in bad debt and resolved \$20M in aging balances (60+ to 360+ days) within three months via systematic dispute resolution
- Reduced invoice processing time from 60 to 35 days by identifying supply chain bottlenecks through data analysis

## PROJECTS

### Credit Card Fraud Detection | SQL (PostgreSQL/SQLite), Python, Pandas, Matplotlib

GitHub

- Analyzed 1.3M+ credit card transactions (0.6% fraud rate) using 15+ SQL queries across 7 detection dimensions; identified 3× higher fraud during 10PM–3AM and flagged card cloning via geographic anomaly detection (impossible travel >100 mi/hr)

### Spotify Music Recommendation System | Python, Scikit-learn, K-Means, Cosine Similarity

GitHub

- Built content-based recommendation engine for 90K+ Spotify tracks using K-Means (k=8) and cosine similarity on 9 normalized audio features; delivered top-N recommendations with 98%+ similarity scores via cluster-scoped search

### Sales Performance Analytics Dashboard | Tableau, SQL, Excel

GitHub

- Developed interactive Tableau dashboard analyzing 271K+ sales transactions across 147 countries and 795 reps; revealed 89% sales growth (2011–2014) and top 5 markets contributing 35% of global revenue

## EDUCATION

### M.S. in Business Analytics – Trine University, Detroit, MI

Mar 2023 – May 2025

GPA: 3.9/4.0 | GRE: 328/340 | Coursework: Statistics, Data Mining, Big Data, Data Science, ML, Data Analytics, Financial Modeling, Financial Analysis, Data Visualization, Business Analytics

### B.Com (Honors) – Osmania University, Hyderabad, India

May 2014 – May 2017

Accounting, Finance & Management | CGPA: 8.0/10