

PRAJWAL VENKAT VENKATESH

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SUMMARY

Data Analyst • \$1.6M Cost Savings Delivered

Strategic Data Analyst with expertise in SQL, Python, and Power BI/Tableau. Prevented \$1.6M in fraud losses on 3M+ transactions and reduced manual reviews 30% by building automated dashboards. Partnered with finance and operations teams to accelerate decision-making and operational efficiency.

EDUCATION

The University of Texas at Arlington

Master of Science in Data Science | **GPA: 4.0/4.0**

• Coursework: Big Data & Cloud Computing (Azure), Probability and Statistics, AI, Neural Networks, Project Management

Arlington, TX

Aug 2023 – May 2025

M S Ramaiah Institute of Technology

Bachelor of Engineering in Electronics and Communication

Bengaluru, India

Aug 2018 – Jun 2022

SKILLS AND CERTIFICATIONS

Programming and Databases: SQL, Python, R, MySQL, Version Control(Git)

Data Visualization: Microsoft Excel(Power Query), Power BI (DAX), Tableau, Executive Reporting

Analytics: ETL Tools, Exploratory Data Analysis, Business Intelligence, Data Warehouse, Microsoft Office Suite

ML and Stats: Regression, Classification, Predictive Modeling, A/B Testing, Hypothesis Testing, Statistical Analysis, Data Mining

Project Management: Agile, Stakeholder Management, Data Storytelling, Cross-functional Collaboration

Certifications: AWS Cloud Practitioner, Oracle Cloud Infrastructure Foundations Associate (Expected Oct 2025)

EXPERIENCE

Research Assistant

Jul 2025 – Present

The University of Texas at Arlington

Arlington, TX

- **Accelerated research cycles by 15%** by analyzing 30+ machine learning papers and creating standardized evaluation frameworks for \$200K research initiative.
- Built **Python-based experiment pipelines** with automated evaluation (NumPy, Pandas, Scikit-learn) to reduce validation errors **from 20 to 5 per project** and support **cross-functional 5-member** team on ML algorithm testing.
- Utilized SQL and **Snowflake** for efficient data mining, reducing average query time from **15 minutes to 3 minutes** and improving data governance.

Data Analyst - GTA

Aug 2024 – Jun 2025

The University of Texas at Arlington

Arlington, TX

- **Delivered 20% operational efficiency** gains by analyzing 800+ student records with SQL and Excel (pivot tables, VLOOKUP), generating insights that informed a **\$50K budget reallocation** towards tutoring.
- **Boosted student engagement 25%** by building real-time **KPI dashboards** in **Tableau**, enabling academic stakeholders to take data-driven actions
- **Improved assessment outcomes 40%** by delivering 12+ SQL, data analysis, and business intelligence workshops to 80+ participants, strengthening department-wide analytical capabilities.

Data Scientist

Oct 2022 – May 2023

Valley Infosystems

Bangalore, India

- **Achieved \$1.6M+ annual fraud savings** for a banking client by collaborating with risk management teams to deploy anomaly detection models on 3M+ transactions, **reducing false positives by 18%** and improving AUC-ROC **from 0.81 to 0.89**.
- **Saved 15 analyst hours weekly** by automating business processes through **ETL pipelines** and data validation frameworks, eliminating manual errors and increasing operational efficiency.
- **Established a data governance** framework that defined ownership, access controls, and documentation for 3.4 M-row transaction tables.
- **Reduced fraud response time 10%** by deploying **Power BI risk dashboards** with prioritized alert queues and SHAP explainability, enabling a **5-analyst** team to triage **13% faster** during monthly reviews.

Machine Learning Intern

Oct 2021 – Nov 2021

Suvidha Foundation

Nagpur, India

- **Collaborated with 4-person** development team to **sort, clean and categorize 42,000+** botanical images, **achieving 80.9% accuracy** in automated classification within 1-month sprint
- **Improved detection accuracy 39%** (58% to 80.9%) in fast-paced development cycle, validating CNN model readiness for production deployment in agricultural risk systems

PROJECTS

Fina: AI Powered Credit Risk & Advisory System | Python, RAG, XGBoost, Streamlit, SHAP | [\[Link\]](#)

Aug 2025

- Shipped a risk-scoring and AI advisory platform (Streamlit and SHAP) for FHL bank that flagged the top **2% of risky loans** with **F1 = 0.80**, cut manual reviews by **30%**, and reduced evaluation time by **15%** and decision turn around by **12%** across teams.

VibeSync: Mood-driven Music Recommender | Python, NLP, Spotify API | [\[Link\]](#)

Jun 2025

- Built a sentiment-to-music recommender leveraging NLP, KNN algorithms and Spotify API, **increasing user engagement by 28%** and achieving a **40%+ engagement lift** via emotion-aware time-series data analytics.