# PRAJWAL VENKAT VENKATESH

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## SUMMARY

**Data Analyst • $1.6M Cost Savings Delivered**

Data Analyst with 2+ years of experience in SQL, Python, and business intelligence. Delivered $1.6M in fraud savings and reduced manual reviews 30%, by building automated dashboards and providing data solutions. Skilled in Tableau, Power BI, Excel, and Snowflake with proven ability to partner with cross-functional teams to accelerate decision-making and improve business performance.

## EDUCATION

**The University of Texas at Arlington**                                                                          Arlington, TX
*Master of Science in Data Science | GPA: 4.0/4.0*                                                    *Aug 2023 – May 2025*
  • Coursework: Big Data & Cloud Computing (Azure), Mathematics, Statistics, AI, Neural Networks, Project Management

**M S Ramaiah Institute of Technology**                                                                      Bengaluru, India
*Bachelor of Engineering in Electronics and Communication*                                         *Aug 2018 – Jun 2022*

## SKILLS

**Certifications: Oracle Cloud Infrastructure Foundations Associate, Machine Learning (DUKE University)**

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

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

**Analytics:** ETL Pipelines, Data Warehouse, Business Intelligence, Compliance, Requirements Gathering, Microsoft Office Suite

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

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

## EXPERIENCE

**Research Assistant**                                                                                        Jul 2025 – Present
*The University of Texas at Arlington*                                                                        *Arlington, TX*
  • Accelerated **$200K healthcare** project timeline **15%** by analyzing 30+ research papers and creating **KPIs** comparison framework tracking model key performance indicators, enabling stakeholders to finalize architecture selection 2 weeks earlier
  • Reduced validation errors **73% (11 to 3 per project)** by building automated evaluation pipelines in **Python** (Pandas, NumPy, Scikit-learn), enabling 6-member team to test algorithms 40% faster

**Data Analyst (GTA)**                                                                                    Aug 2024 – Jun 2025
*The University of Texas at Arlington*                                                                        *Arlington, TX*
  • Informed **$50K** tutoring budget reallocation through advanced analytics of student database with **SQL** and **Excel** (pivot tables, LOOKUPS), identifying correlation between tutoring usage and 18% higher pass rates
  • Optimized and QA-validated Student **Data Warehouse** and **Salesforce CRM** reports to fulfill **42 monthly requests** for UTA academic and administrative units, standardizing checks that reduced correction-related follow-ups **from 11% to 5%**.
  • Reduced student risk identification time **50% (30 min to 15 min weekly)** by building interactive data visualizations and **Tableau KPI dashboards** with automated alerts for at-risk indicators, replacing manual **Excel** review process
  • Delivered 12+ workshops on SQL, data analysis and business intelligence to 80+ participants, with **75% successfully applying** techniques in coursework and reducing reliance on external tools by 30% based on post-training surveys

**Data Scientist**                                                                                        Oct 2022 – May 2023
*Valley Infosystems*                                                                                          *Bangalore, India*
  • Achieved **$1.6M+ annual cost savings** by deploying anomaly detection models on 3M+ transactions in collaboration with risk management and compliance teams, reducing false positives by 18% and improving AUC-ROC **from 0.81 to 0.89**
  • Saved **10 analyst hours weekly (520 hours annually)** by building **ETL pipelines** to automate daily reporting and data validation using Python and SQL, reducing report generation from 2 hrs to 30 min
  • Implemented **data governance** (access controls, quality rules, **documentation**) on a 3.4M-row database, reducing data-quality issues **30%** and ad-hoc requests by 25%
  • **Reduced fraud response time 10%** by deploying data visualization dashboards in **Power BI (DAX)** with prioritized alert queues and SHAP explainability, enabling a 5-analyst team to complete **ad-hoc analysis 13% faster** and triage high-risk cases during monthly reviews

**Machine Learning Intern**                                                                               Oct 2021 – Nov 2021
*Suvidha Foundation*                                                                                            *Nagpur, India*
  • Improved image classification accuracy **39% (from 58% to 80.9%)** by collaborating with stakeholders and a **4-person team** to clean and categorize 42,000+ botanical images using Python (Pandas, Matplotlib, Plotly), validating CNN model for production deployment in agricultural risk systems

## PROJECTS

**Fina: AI Powered Credit Risk & Advisory System** | *Python (Matplotlib, Plotly), RAG , XGBoost, Streamlit, SHAP* | [**Link**]        Aug 2025
  • Built AI credit risk platform combining RAG-based policy chatbot (**94% accuracy on 100+ questions**) and XGBoost risk-scoring model (**F1=0.80**) with SHAP explainability, projecting 30% reduction in manual loan reviews for simulated FHL Bank case study

**VibeSync: Mood-driven Music Recommender** | *Python, NLP, Spotify API* | [**Link**]                                        Jun 2025
  • Built a sentiment-to-music recommender using NLP, KNN and Spotify API, demonstrating product analytics skills through **A/B testing** that showed **28% increase** in user engagement via emotion-aware time-series data analytics.