

# SRILEKHA TIRUMALA VINJAMOORI

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## TECHNICAL SKILLS

**Programming Languages:** Python, R, SQL

**Analytics & Data Science:** Data Cleaning, Feature Engineering, Outlier Detection, Dimensionality Reduction (PCA), Class Imbalance Handling (SMOTE), Exploratory Data Analysis (EDA)

**Machine Learning:** Classification, Regression, Model Evaluation, Model Interpretability

**ML Libraries & Frameworks:** Scikit-learn, XGBoost, TensorFlow, PyTorch, Imbalanced-Learn, SHAP, LIME, InterpretML

**App Development & Deployment:** Streamlit, AWS EC2, AWS CloudFormation, AWS Lambda, Kubernetes

**Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Plotly

**Databases & ETL:** SQL Server, Oracle, Data Warehousing, ETL Pipelines

## EXPERIENCE

**Graduate Teaching Assistant**, University of Texas at Arlington – Arlington, TX

Jan 2024 – Present

- Taught **SQL for data analysis**, enhancing students' ability to extract business insights and interpret trends using real-world use cases in **Tableau**. Simplified complex data analytics concepts, improving analytical reasoning and decision-making skills for a diverse audience.

**Digital and Systems Analyst**, Shree Venkateshwara Foams LLP – Hyderabad, India

Oct 2022 – May 2023

- Developed interactive dashboards in **Power BI**, leading to a 20% increase in sales insights and performance tracking.
- Provided data-driven recommendations to optimize marketing strategies, enhancing customer engagement by 15%.

**Analyst**, Wipro Limited – Hyderabad, India

Sept 2020 – Aug 2022

- Led a team of 6 to test 120 migrated servers in 10 days, ensuring 100% compliance through strategic execution.
- Extracted & analyzed defect reports in Proton, cutting issue resolution time by 30%.
- Developed a ServiceNow dashboard, improving request tracking and reducing response time by 40%.
- Managed 400-500 SSL certificates weekly, ensuring seamless issuance, troubleshooting, and 100% SLA compliance.

## PROJECTS

**AutoNexus – End-to-End AutoML & Model Explainability App**

Apr 2025

- Built an end-to-end AutoML web app to automate EDA, data preprocessing, model training, and interpretability using SHAP, LIME, and EBM
- Designed a modular pipeline for handling missing values, scaling, encoding, outliers, class imbalance, and feature selection
- Enabled support for classification and regression models with real-time visualizations and downloadable model artifacts

**Fraud Detection in Job Postings**

Dec 2024

- Achieved 96.45% fraud detection accuracy using **Exact Bayes and Bernoulli Naive Bayes** on **Python** with advanced feature engineering.
- Developed a dynamic fraud detection system with threshold tuning for optimal precision-recall balance.

**Advocate Diary Management & Performance Analytics Dashboard**

July 2024

- Built a **Power BI** dashboard by extracting advocate case data from Microsoft SQL Server, enabling real-time tracking of case outcomes and advocate performance.
- Optimized data visualization and reporting, enhancing efficiency in monitoring advocate activity and improving legal case management.

**Universal Furniture Outlet – Database Design and Optimization**

Dec 2023

- Developed a third-normal form **Oracle database** to streamline customer orders, delivery logistics, and inventory management.
- Optimized SQL queries and indexing strategies, improving database performance by 25% and reducing query execution time.
- Designed **Tableau** dashboards for real-time tracking of order fulfillment and inventory trends, enhancing decision-making and reducing stock shortages.

**Wines Sales Prediction**

Dec 2023

- Implemented machine learning models in **R** to forecast sales trends, evaluating **Random Forest, Linear Regression, and Logistic Regression** for optimal accuracy.
- Selected Linear Regression for its interpretability and efficiency, achieving an **RMSE of 5.2%**, improving sales predictions and revenue forecasting.
- Performed **correlation analysis in R** to identify key sales drivers, enabling data-driven decisions for inventory optimization and pricing strategies.

## EDUCATION

**University of Texas at Arlington**, MS in Information Systems

Aug 2023 – May 2025

- **Coursework:** Data Mining, Data Visualization, AI Ethics, Explainability and Interpretability, Business Process Improvement, System Analysis and Design, Database Management and Optimization, Project Management, Cloud Computing