Satyavani Marneedi

+16826990707 | vxm210076@utdallas.edu | **LinkedIn** | **GitHub** | Portfolio

EXPERIENCE

American Express, *Senior Data Analyst, Credit and Fraud Risk, India*   *Jun'19 – Jul'22*

- Led initiatives to improve risk model accuracy by developing automated data quality monitoring and alerting systems, leveraging **Hive** and **Excel** to devise effective strategies and ensure robust, reliable analytics.
- Developed and implemented advanced intelligent attributes for risk models and strategic initiatives across diverse banking products, including Merchant Finance (**MF**), Corporate Hardship (**CH**), and Small Business Administration (**SBA**) loans, enhancing model performance and decision-making.
- Skilled in **Python** (**Pandas, NumPy**), SQL, and Excel for data analysis, statistical analysis, cleaning, and preprocessing. Leveraged advanced features such as pivot tables, array functions, macros, and aggregate/window functions to derive actionable insights and enable data-driven decision-making
- Collaborated with senior leadership to successfully migrate critical historical data, including Total Program Cancellation (TPC), Total Program Suspension (TPS), and bankruptcy information, utilizing **HDFS**, **SQL**, **Hive**, **Exce**l and business expertise for improved data accuracy.
- Partnered with business stakeholders, IT, modeling, and strategy teams to decommission unused and redundant **commercial** attributes, streamlining system operations and achieving significant cost and time efficiencies.

American Express, Intern, Risk (Credit and Fraud), India   *Jan'19 – Apr'19*

- Developed an automated data validation tool using **SQL, Python** to validate large banking datasets, and track validation metrics over time, resulting in process efficiency in banking operations.

Focus Academy for Career Enhancement, *Associate Trainer,* India   *May'15-May'17*

- Conducted comprehensive training sessions in **Python** programming, Object-Oriented Programming (**OOP**), Data Structures, and **Algorithms**, incorporating hands-on projects and real-world applications to enhance learning outcomes of undergrads in top Indian universities.
- Demonstrated strong leadership skills by managing 15+ trainers resulting in Significant boost in new business.

SKILLS

- Python, R, SQL, Hive, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Tableau, Power BI, Statistical Analysis, Excel, Machine Learning: Supervised, Unsupervised, Reinforcement Learning, Big Data, Hadoop, HDFS, Hive, MySQL, Git, Jira, Confluence, Communication, Collaboration, Critical Thinking, Problem-Solving, Presentation skills

EDUCATION

MS, Business Analytics (Data Science), The University of Texas at Dallas, **GPA:3.6**   *May'24*

MS, Information Technology, IIIT Hyderabad (IIITH), **GPA:3.2**   *Jun'19*

CERTIFICATION

- Machine Learning Specialization (Stanford Online, Deep Learning.AI)**,** Power BI (NASBA)
- Machine Learning Graduate Certificate (UT Dallas)

ACADEMIC PROJECTS

Exploratory Data Analysis of Airbnb NYC Data:(Pandas, Matplotlib, Seaborn)   *Aug'24*

- Conducted comprehensive exploratory data analysis on Airbnb NYC 2019 dataset, uncovering key insights into host behavior, neighborhood popularity, and pricing trends using Python and data visualization libraries.
- Developed a geographical scatterplot using latitude and longitude data to visualize price distribution across New York City, enhancing understanding of location-based pricing strategies.
- Analyzed listing densities, review frequencies, and host performance metrics to identify top-performing hosts and popular areas, providing actionable insights for business decision-making and platform optimization.

Logistic Regression Model (Pandas, Numpy, Light GBM, XGBoost, H2O, Scikit-Learn)   *Aprl'23*

- Built and fine-tuned a logistic regression model using Python's Scikit-Learn library, Light GBM and H2O models to predict payment behavior (full payment or charge-off) for new SBA customers.
- Preprocessed data through feature engineering, handling missing values, and applying data scaling to optimize model performance and achieved an accuracy of 89.8%, enhancing reliability of predictions. supporting data-driven decisions in risk assessment.

AWARDS:

- Awarded "Scholar with Recognition" for academic excellence in UT Dallas.
- Awarded "Appreciation Certificate" for outstanding contribution as a Mentor to incoming students in UT Dallas.
- Best Head Placement Coordinator at IIITH for exceptional contributions in placements