Sruthi Kapudasi

sruthiprasad2024@gmail.com |+1(410)-558-7469| Portfolio | LinkedIn | GitHub

SKILLS

Programming: SQL, Python, JAVA, C++, JavaScript, R, MATLAB
Data Tools: AWS, STATA, MS SQL Server, Tableau, Matplotlib, Scikit-learn
Database Systems: MySQL, MongoDB, Relational Databases, Oracle, PostgreSQL
Software: JIRA, Git, MS Excel, MS Suite, Android Studio, Canva

PROFESSIONAL EXPERIENCE

Lead Teaching Assistant, Baltimore City Public Schools System, **University of Maryland**   **January 2024 – Present**
- Managed the RTTP Program site and led the tutor team, resulting in enhanced tutor performance, improved student engagement, and a 25% increase in participation in tutoring sessions.
- Monitored curriculum implementation and delivered actionable feedback, achieving 100% compliance with program standards and driving a 5% improvement in student math scores over one semester, with 20 students experiencing a 15% boost in test results.
- Fostered strong relationships with school staff and organized weekly engagement activities, leading to a 40% rise in program attendance and heightened student enthusiasm for learning.
- Developed and applied data-driven strategies to track academic performance, identifying four key areas for targeted support and optimizing student outcomes by 25% across two academic terms.

Research Assistant, University of Maryland   **March 2025 – Present**
- Analyzed FED financial data across 224,329 firm-quarters, and 209 variables, including GDP trends, market volatility, and debt ratios.
- Performed data cleaning and statistical transformations on key financial metrics, such as $46.89M median quarterly sales and $212.9M median market value.
- Prepared research reports and visual analyses covering 18 years (2000–2018), illustrating the impact of the 2008 financial crisis and a 53% drop in Q4 firm observations by 2018.

CAMP Systems International, Inc., Full-Stack Developer   **June 2022 – December 2023**
- Collaborated with the DevOps team for 12 months to develop functionalities in Ops Edge and iCamp applications using Angular and ADO.Net (C#), integrating AWS for data storage, and enhancing retrieval efficiency by 40%.
- Engineered and deployed critical application features that strengthened data accessibility for maintenance personnel, reducing average task completion time by 25% and improving operational efficiency by 30%.
- Collaborated with team AMSTAT, for 6 months and analyzed aircraft maintenance data to identify trends and patterns, potentially leading to recommendations for preventative maintenance strategies.

Cognizant, Programmer Analyst Trainee   **December 2021 – May 2022**
- Completed Cognizant's Gen C learning program, achieving a (high 80s or 90s) score in Stage 1 (QEA Basics) and proficiency in Selenium with Digital Technologies proven through completing 3+ projects involving web automation.
- Developed adaptive issue resolution skills through Agile methodology, resulting in a 20% reduction in average resolution time.
- Achieved a score of 96 on Integrated Capability Tests (ICT) by employing advanced troubleshooting techniques, and enhancing the team's overall analytical capabilities by 20%.

PROJECTS

Credit Data Fraud Analysis and Detection   **January 2024 -April 2024**
- Technologies: Python, XGBoost, Scikit-learn, Google Colab, Seaborn, Sklearn
- Processed a European credit card transaction dataset containing 284,807 transactions (including 492 fraudulent ones).
- Reduced data dimensionality by 70% using PCA, allowing for efficient identification of patterns and isolating fraudulent transactions.
- Implemented an XGBoost, achieving a superior AUPRC of 0.869 demonstrating effectiveness in identifying fraudulent transactions while minimizing false positives.

Unraveling Insights from Supermarket Sales Data   **January 2024 -April 2024**
- Technologies: Python, Jupyter, Sklearn, Matplotlib, SQL
- Cleaned and standardized 3 months of sales data from branches A, B, and C, improving predictive modeling accuracy by 30%.
- Developed and deployed ML models to reveal trends and a near-even gender split in customer preferences (49.9% M - 50.1% F).
- Tailored promo campaigns based on patterns identified through data visualization, resulting in a 20% increase in customer engagement.

Regression Model for Predicting Stock Price   **August 2022 - December 2022**
- *Technologies: Python, Jupyter, Sklearn, TensorFlow, LSTM*
- Investigated and modeled a 5,030-stock market records dataset over 20 years using sci-kit-learn and TensorFlow.
- Created and validated Linear Regression and LSTM models for predicting TSLA and TM stock prices, achieving 92% accuracy.
- The Final Model predicted stock prices with an RMSE of 1.97, and the LSTM model achieved 94% accuracy.

CERTIFICATIONS

Student Management Consultant, University of Maryland Baltimore County   **December 2024**
Google Cloud Computing Certificate, Google Cloud   **May 2024**
Introduction to Augmented Reality and AR Core, Coursera   **June 2020**

EDUCATION

Masters in Data Science, University of Maryland Baltimore County   **December 2025**
Coursework: Data Management, Big Data and Platforms, Machine Learning, Project Management, Financial Data Science
Bachelor of Technology in Computer Science and Engineering, Jawaharlal Nehru Technological University   **May 2022**
Coursework: Calculus, Software Engineering, Computer Architecture, Object Oriented Programming, SDLC