VISHNU TEJA SARDEE

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EDUCATION

Stony Brook University **Stony Brook, NY**
Master of Science in Applied Mathematics and Statistics (Operations Research), 3.33/4 GPA expected May 2023
Courses Taken: Mathematical Statistics, Statistical Learning, Computational Geometry, Analysis of Algorithms, Stochastic Models, Simulation and Modelling.

Jawaharlal Nehru Technological University **Hyderabad, India**
Bachelor of Technology in Electronics and Computer Engineering, *7/10 GPA* Aug 2015 - May 2019
Courses Taken: Engineering Mathematics, Electronic Devices and Circuits, Computer Programming, Database Management and Systems, Information Security, Web Technologies, Internet of Things, Big Data Analysis.

SKILLS & INTERESTS

- **Computer Programming:** Python, R, MATLAB, Java, C/C++, Bash / UNIX command line, SAP ABAP/HANA
- **Data Analysis:** Pandas, Numpy, R (eg: GLM, Decision Trees, Neural Networks, SVM, Cluster Analysis.), MySQL
- **Industry Tools:** PowerBI, Tableau**,** MS Excel, Linux, Git, BitBucket, Jupyter Notebook

WORK EXPERIENCE

Stony Brook University **Stony Brook, NY**
Research Assistant - Data Analyst, School of Public Health and Welfare March 2023 - present
- Research headed by professors Sana Malik and Melissa Bessaha to understand the help seeking behavior and support needed by graduate students during the COVID-19 pandemic and answering other questions.
- Used R for data cleaning and preparing summary statistics (including visual aids) to gather insights and recommend further analysis by focusing on most relevant parameters.
- Employed variable selection and logistic regression to determine correlation between various healthcare factors asked in the survey.

Accenture **Bangalore, India**
Application Development Analyst- SAP Finance and Controlling team Jun 2019 – Jul 2021
- Part of a team which was responsible for maintaining financial/accounting records of a MNC in SAP systems.
- Solved IT service request tickets, adhering to service level agreement (SLA), and gathered stats that showed KPI's about team performance for internal review purposes and to ensure compliance to SLA.
- Corresponded often with clients and other internal teams to solve various business issues such as system updates.
- Monitored crucial systems, transactions and facilitated system transfers (quality to production) to ensure smooth business functioning under time constraint. Raised immediate alarms upon detection of certain failures, thus reducing any potential financial losses.
- Analyzed and updated cost center / profit center accounting tables to coordinate actual and fiscal year planning.

PROJECTS

Bank Loan Status Prediction using Machine Learning: April 2023 – present
- Using predictive analysis to classify bank loans (approved/rejected) using a dataset from Kaggle.
- Developing Support Vector Machine (SVM) and Neural Network models to train, validate and test data.
- Make predictions to see model performance and compare results.

Financial Modeling of Stock Option Prices: March 2023 – present
- Researching multivariate normal tempered distribution to model stock option prices under the supervision of Prof. Aaron Kim. Working extensively with Python and R.
- Studied Geometric Brownian motion and performed time series analysis of S&P 500 index returns.
- Applied Monte Carlo method and Black Scholes formula to simulate stock price daily returns and call option prices.

Predictive Analytics: March 2023 – present
- Implementation of Decision Trees and Neural networks in python for classification and regression tasks.
- Used "Boston Housing and Titanic datasets from Kaggle, programmed in Python. Worked with tensorflow and keras.