SHRESHT VENKATRAMAN

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EDUCATION

BACHELOR'S ECONOMICS; DATA SCIENCE Minor | Univ. of California, San Diego *Sep 2019 - Dec 2023 Exp.*
Data Science Portfolio: *https://shrsht.github.io/Shresht_Portfolio/*

WORK EXPERIENCE

DATA SCIENCE ALGORITHMS INTERN- Corsaire, San Diego ***July 2023 - Present***

- Analyzed & re-structured financial and medical data retrieved from multiple databases using Excel, Python & Tableau to create a data-driven Key Opinion Leader visualization for client presentations.
- Designed multiple presentations, charts & reports for firm's upper management to track financial activities & transactions of key medical professionals to optimize client acquisition.
- Leveraged tools like MS Access & SharePoint to collaborate with the firm's operations teams to identify financial targets and create forecasts for future activity and other ad-hoc client requirements.

FINANCE & DATA ANALYST INTERN - Advent International, Boston ***June 2022 - Aug 2022***

- Designed and built Tableau dashboards for 8 firm departments using 5-years of expenditure data. Improved the firm's ability to compare expenses across departments and recognize key performance indicators
- Facilitated the production of weekly presentations to management including CFO, CEO, and Managing Partners by transforming P&L and forecasted sales data into appropriate graphs and presentations using Excel and Tableau.
- Programmed a custom Python algorithm to automate data-cleaning and restructuring processes for the FP&A department. Increased efficiency by saving 10+ hours of manual data-cleaning
- Built a 'Deal-Stage Meter' for the firm's 3 global tax teams to accurately track the status of individual deals and manage timelines for tax compliance. Greatly improved the coordination and management between firm's Boston, London and Luxembourg tax teams

DATA SCIENCE PROJECTS

Stock Prediction System | Project Committee: UCSD Data Science Student Society ***Jan 2023 –Present***

- Worked with a 5-member team to develop machine learning models to predict opening prices of a stock using Random Forests, LSTMs, Koopman Neural Networks implemented using TensorFlow and Scikit-learn.
- Calculated and graphed the Efficient Frontier for a given portfolio by minimizing the Portfolio Volatility and maximizing the Sharpe Ratio using Python.
- Used the Twitter API to scrape tweets and perform NLP Sentiment Analysis on Twitter activity to use as a predictive feature for predicting Stock Prices.

Predicting Political Party from Stock Portfolios ***November 2022***

- Used the 'House Stock Watcher" data set of stock-market trading activity of members of the House of Representatives between 2020 to 2022.
- Predicted political affiliation from a stock portfolio by creating Scikit-learn Pipeline incorporating RandomForest Classifiers, One-Hot Encoding and Grid-Search for hyperparameter optimization.
- Tested for insider trading by using *permutation testing* to assess missingness of values and detect party-wide preference for a stock.

Statistical Language Model of the Shakespeare Corpus

- Obtained the entirety of William Shakespeare's literary corpus from 'Project Gutenberg' and tokenized it to perform NLP Analysis.
- Developed Uniform, Unigram and N-Gram probabilistic models to predict the probability of a given text being written by William Shakespeare

TRANSFERABLE SKILLS

DATA ANALYSIS & PROGRAMMING: Excel, Access, PowerPoint, Python, SQL, Stata, R**,** Tableau
FINANCE: Financial accounting, Statistics, Econometrics and Probability
LANGUAGE: Japanese (JLPT N3), French (DELF B1), Korean, Hindi (Native), Tamil