SUSHOBHAN PARAJULI

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EDUCATION

Baruch College – Weissman School of Arts and Sciences New York, NY
Bachelor of Arts in Mathematics | *GPA: 3.5* May 2023
Relevant Coursework: Abstract Algebra, Algorithms, Computer Information Systems, Discrete Mathematics, Financial Mathematics, Inferential Statistics, Intermediate Macroeconomics, Linear Algebra, Mathematical Analysis, Mathematical Probability, Mathematics of Data Analysis, Monetary Economics, Stochastic Processes
Data Science Fellowships: *Research Data Science Fellow* at Microsoft (2022), *Data Science Fellow* at CUNY Tech Prep (2021-2022)

PROFESSIONAL EXPERIENCE

GivingbackAI New York, NY
Intern, OpenSourceNepal Data Team May 2023 – Present
- Collaborate with the founder and data manager to understand project requirements, conduct research, and gather reliable data with strong attention to detail and analytical skills
- Utilize pandas for data extraction, transformation, and loading (ETL), and employ matplotlib and seaborn for Exploratory Data Analysis (EDA) and visualization, showcasing proficiency in data manipulation and analysis
- Work with Git and Codespaces for version control, collaborative coding, and project documentation using notebooks and markdown, demonstrating proficiency in source code management and enhancing project organization
- Employ agile methodology, maintain regular communication through Slack, and provide progress updates via daily standup calls

Brooklyn College New York, NY
Research Assistant, Finance NLP Oct. 2022 – May 2023
- Developed Python code within the existing system to efficiently extract text data for research purposes
- Collaborated with the professor to gain a comprehensive understanding of research requirements and provided valuable programming support
- Utilized advanced Regular Expression techniques to extract meaningful insights from financial statements
- Implemented a Naive Bayes algorithm for analyzing financial statements, enhancing the accuracy of data interpretation

City College of New York New York, NY
Teaching Assistant, STEM Institute Jun. 2022 – Jan. 2023
- Provided comprehensive support as a teaching assistant, mentoring a diverse group of students in Calculus and Chemistry
- Assumed responsibilities for grading assignments and exams promptly, maintaining accurate records of student performance
- Offered constructive feedback and guidance to students, facilitating their academic progress and helping them overcome challenges

PROJECTS

Grabanswer, *CUNY Tech Prep* Apr. 2022 – May 2022
- Utilized transformers library from an open source platform Hugging Face to import a question answering model using Python
- Designed a web application using Flask, HTML, and CSS to answer questions from a long text without reading the text

Stock Price Movement Predictor, *CUNY Tech Prep* Oct. 2021 – Dec. 2021
- Cleaned a stock news headlines dataset using Python's Pandas library, then imported stocks price data from the Yahoo Finance API and integrated it into the dataset
- Programmed a classification model with a TFIDF vectorizer and Multinomial Naive Bayes algorithm using NLTK and Scikit Learn
- Web Scraped Finviz.com using Beautiful Soup library to gather additional news headlines, which were then used as input for the classification model
- Designed a user-friendly web app using Flask framework, HTML, and CSS to present the results

Portfolio Optimizer, *CUNY Student Investment Challenge* Feb. 2021 – May 2021
- Programmed a portfolio optimizer using Python to gain maximum returns on a portfolio of 20 different stocks
- Imported historical price data of the stocks using Pandas for backtesting, and calculated annual expected return and annual volatility of the portfolio by allocating 5% weight to each stock
- Improved the annual expected return of the portfolio from 34% to 59% while maintaining the volatility of 28% through the calculation of discrete allocations for each stock

SKILLS

Data Analysis & Visualization: Pandas, NumPy, RegEx, Tableau, Matplotlib, Seaborn, Dplyr, Ggplot2, Tidyverse, Lubridate, Tidycensus
Machine Learning: Scikit-learn, NLTK, TensorFlow, Hypothesis Testing, Linear Regression
Languages: Python, R, HTML, CSS, SQL, MATLAB
Tools and Frameworks: MS Suite, Google Suite, Jupyter Notebook, R studio, VS code, Linux, Git, GitHub, Flask, PyCharm, LaTeX