Sahil Chowdhury

Interested in pursuing financial technology and ML

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GitHub Profile

Education

•University of Texas at Austin *August 2023 - Present*

Computer Science and Statistics Double Major

•Dulles High School – Math & Science Academy *August 2019 - May 2023*

Valedictorian (1/562) GPA: 4.7/4.0

Personal Projects

•Flight Tracker

Python, SMTP Library, Flight API, Google Sheets API, HTML/CSS, BootStrap, SQL

- Used Tequila API to track the cheapest price from city A to B over a 6 month period
- Send email updates using SMTP Library if a cheap flight is found
- Developed user interface to allow user to select flight and see results

•Stock Price Alerter

Python, Twilio, Stock & News API

- Monitors a stock and sends an text message alert using Twilio if a stock's price changes by more than 5% by querying the Alpha Vantage API
- Texts the user daily about the top 3 most relevant news articles regarding a stock with the News API

•Deep Q-Learning with Cartpole Agent AI

Python, TensorFlow

- Trained a deep learning model using TensorFlow with the objective of balancing a pole protruding from a car by only moving the car left or right on straight ground
- Implemented agent's memory, reward function, and learning algorithm in Python

•Nintendo Switch Buyer Bot

Python, PRAW (Python Reddit API Wrapper), Twilio, SQL, spaCy

- Found cheap selling Nintendo Switches on Reddit using PRAW and spaCy for Natural Language Processing
- Implemented automated phone calling system for successful deals and utilized SQL for storing them
- Achieved 3x ROI, turning $300 into $1000+ via strategic reselling.

Experience

–MDAnderson Bioinformatics Lab *May 2022 - January 2023*

Jupyter Notebook, R, MATLAB

* Performed Gene Set Enrichment Analysis (GSEA) to find genes correlated to blood cancer in hospital patients
* Designed and hyper parameterized various ML models (multilayer perceptrons, SVMs, decision trees, random forests, XGBoost, logistic regression models) to create high-performing cell classifiers on a training set of 60,000+ cells using a MDAnderson's High Throughput Computing Cluster

–Coding For Medicine Research Group *Dec 2022 - Feb 2023*

Python, Linux, MUSCLE, BLAST, BeautifulSoup, R

* Published a scientific literature review project regarding the high AG content in parasitic plants Balanophora under PhD Manoj Samanta
* Scraped gene data from the NCBI using BeautifulSoup

Technical Skills and Interests

Languages/Tools: C++, Python, Java, HTML/CSS, Linux, Git/Github
Frameworks/Databases: Flask, SQL, Postgresql

Awards/Positions

* NMSQT Scholarship Winner for exceptional academic performance and community service (awarded to only 7,500 students per year), 3x AIME Qualifier, USACO Silver, Top 7% in international math competition (Purple Comet)
* Top 5 students out of 100 to win the $2,000 Fort Bend Medical Society scholarship for community and medical contributions
* Raised $19,000 for a club through advertising to local organizations and community service events
* Computer Science Club and Science National Honor Society President