

Joe Hollander

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Passionate and motivated high school student with a strong interest in finance, mathematics, and their intersection.

EDUCATION

South Burlington High School

High Honors (Current GPA: 3.9/4.0), PSAT (1520/1520)

South Burlington, VT

August 2022–Present

Relevant Coursework: AP Calculus BC (Exam Score: 5/5)

University of Vermont

GPA: 4.0/4.0

Burlington, VT

July 2024

Relevant Coursework: Calculus 3

PROJECTS

KAGGLE

- Cleaned and prepared data using multiple data cleaning techniques, such as imputation, PCA, statistic replacement, normalization, and normal distribution transformation
- Used different machine learning models, such as Random Forest models, Clustering models, and Ensemble models, in multiple competitions
- Visualized data with matplotlib and seaborn to highlight trends and patterns

PRICING OPTIONS

- Used the Cox-Ross-Rubenstein Binomial Tree model and the Leisen-Reimer Binomial Tree model to price American and European style options
- Used the Black-Scholes model to price European style options, display changes based on underlying price, and graph simple option strategies

CRYPTOCURRENCY DATA COLLECTION

- Used websocket rest APIs to gather orderbook, volume, and orderflow data from the Kraken exchange
- Created asynchronous script to display orderbook data in real time and other statistics
- Implemented Python scripts to optimize data storage using Parquet and Git

AUTOMATED SCORE SHEET GENERATOR

- Created an automated script that generated score sheets for soccer games, improving efficiency and accuracy
- Used Selenium and BeautifulSoup to scrape data from the website
- Used Pandas to clean and organize data, and then used PDFkit to generate printable pdf files

SKILLS

- Python 3 (NumPy, Pandas, Matplotlib, Scikit-Learn)
- Git
- Docker