

# Ben Adelman

Statistics Major at University of Florida with strong machine learning skills and a passion for quantitative based finance trading/modeling.

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## EDUCATION

### School

University of Florida

2024-2028

*Projected B.S in Statistics*

## WORK EXPERIENCE

### Data Scientist

Claim Clarity AI

11/2021 - 03/2023

*Coral Springs, FL*

*Medical Based AI Company*

*Achievements/Tasks*

- Optimized data cleaning of medical procedures from manual to fully automatic using Python along with various libraries such as Pandas, PyPDF, Numpy, as well as NLTK for natural language processing.
- Used sklearn library to employ machine learning techniques such as train-test splits and correlation matrices in order to track how well our model correctly predicted each recommendation based on the patients description. Managed to achieve > 90% accuracy by the end of the training phase.
- Sorted through states worth (California, New York, Vermont) of medical procedure documents in order to help train our own Natural Language Processor (NLP) to assist users of the application and give them recommendations based on their specific health conditions.

### Data Analytics Intern

ENGAGEathon

06/2023 - 09/2023

*Philadelphia, PA (remote)*

*Community engagement platform*

*Achievements/Tasks*

- Collaborated with cross-functional teams in creating a Django backend that allowed us, along with a React front end, to create a robust framework capable of supporting a full web app capable of efficient data flow.
- Assisted in building predictive machine learning models (primarily K-Means clustering) in order to predict what career a person would most likely be best suited for. By the end of the training phase, our model had > 83% accuracy.
- Created appealing data visualization dashboards using tools like Tableau, Altair, as well as Matplotlib. Presented my findings alongside my team to department heads.

## SKILLS

Python

Java

Public Speaking

Pandas

Equity Derivatives

SQL

Time Series Analysis

Collaboration

Machine Learning

Probability

## PERSONAL PROJECTS

Quant-based.com (06/2023 - 08/2023)

- Developed a dynamic full stack website using Flask, offering advanced tools for quantitative financial analysis. Users can calculate equity options prices, visualize volatility surfaces, run Monte Carlo simulations, and more. The platform combines powerful computations with a light weight framework empowering traders to make informed decisions.

Tda-api-vol (11/2022 - 03/2023)

- Developed an open-source Python library on GitHub that harnesses the power of TD Ameritrade's API to provide users with enhanced financial insights. The library offers a range of functionalities, including volatility analysis and the ability to price options using the Black-Scholes formula.

Spotify Visualizer (03/2022 - 04/2022)

- Utilized Spotify's API combined with a Flask backend and a React frontend to allow users to see their most listened to music artists and songs across multiple timeframes

## INTERESTS

Philosophy

Football

Wrestling

Manga