Adam Gralinski

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Summary

Python and blockchain developer pursuing a career in Data Analytics. Excited about the ways in which Web3 technology has the potential to revolutionize traditional business practices. Enjoy the process of gaining insights from data and utilizing Machine Learning to optimize results. Completed a Financial Technologies Boot Camp from the University of Minnesota in March 2023 learning Python, Solidity, and Standard Query Language (SQL). Worked on various projects such as Expected Return Models, Algorithmic Trading Bots, and a Decentralized betting application. Organizations seeking a candidate with proficiency in the latest financial technologies can access the tools required to optimize their operations and achieve sustained success.

Technical Skills

Tools: Visual Studio, Tensorflow, Keras, Scikit-Learn, Time-Series analysis, ChatGPT
Languages: Python, SQL, Solidity
Data Visualization: Streamlit, Matplotlib, Seaborn
Python: Pandas, PyViz, NumPy, Web3.py, Jupyter Notebook
Solidity: ERC-20 Token Crowdsale, ERC-721/ERC-1155 Token Mint
Machine Learning: Neural Networks, Logistic Regression, Decision Trees, Support Vector Machines, Random Forests**,** K-means Clustering, K-Nearest Neighbor, Principal Components Analysis (PCA)

Projects

Expected Return Models (https://github.com/hagankj/Team-3-Repo):

- Used three different approaches to forecast excess returns in a variety of assets.
- Monte-Carlo simulation, Capital Asset Pricing Model(CAPM), and Fama-French 3 Factor Model.
- Responsible for data exploration/preparation/cleanup and application of Monte-Carlo simulation
- Tools used: Alpaca API, MCForecastTools, FRED API, and FRED library

Algorithmic Trading Bot (https://github.com/AGralin/dreambuilder_bot):

- Used historical data to backtest various technical and sentimental indicators to analyze price action in an attempt to find alpha.
- Applied several Machine Learning Models to optimize results
- Responsible for preparing data and applying features into ML models to optimize returns.
- Tools used: Yfinance, Requests library, finTA library, Alternative.me API
- Machine Learning Models used: Support Vector Machine(SVM), Logistic Regression, XGBoost

March Madness Decentralized Betting App (https://github.com/AGralin/March_Madness):

- Created a pari-mutuel sports betting pool using the ERC-1155 token standard
- 64 publicly mintable tokens corresponding to each NCAA team, with funds going directly into the prize pool with automatic payout function
- Responsible for researching a token standard, creating smart contract, and creating readme
- Tools used: ERC-1155 multi-token standard, Contracts Wizard (smart contract template), and streamlit

Education

Financial Technologies Boot Camp Certificate: University of Minnesota:

- A six month program practicing technical programming skills. Covering Financial Fundamentals, Financial Programming, Machine Learning Applications in Finance, and Blockchain and Cryptocurrency. **Sep 2022 - March 2023**

University of Minnesota, Minneapolis MN:

- 3 years in Global Studies, College of Liberal Arts. **Sep 2019 - May 2022**