Jacob Eckhardt

821 Allen St. Apt. 1134, Dallas, 75204, United States, (830)456-3183, jacobaeckhardt@gmail.com

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LINKS

https://github.com/jae182, www.linkedin.com/in/jacob-adam-eckhardt

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PROFILE

Data analyst with a background in Economics. Earned a certificate from Southern Methodist University's FinTech Boot Camp. Detail-oriented individual looking to utilize fresh Python skillsets along with strengths of analytical problem-solving and teamwork to produce the highest quality work.

SKILLS

Microsoft Office	Expert	Machine Learning	Experienced
Git	Skillful	Neural Networks/Deep Learning	Skillful
Python	Experienced	Data Visualization	Experienced
Pandas	Experienced	Algorithmic Trading	Skillful
SQL	Skillful		

PROJECTS

SFO Rental Analysis

- Analyzed the rental and location data in the San Francisco area
- Developed interactive visualizations to allow theoretical customers to explore the data concerning San Francisco rentals
- Aggregated all relevant visualizations into a dashboard to provide ease of access to data
- Languages: Python | Libraries: Pandas, Matplotlib, Plotly, panel, hvplot

Financial Planning

- Called multiple APIs to access relevant cryptocurrency and stock data to create a portfolio
- Deployed Monte Carlos Simulations to understand relevant trends in stock and cryptocurrency value
- Visualized simulation results and provide insight into future returns
- Languages: Python | Libraries: Pandas, MCForecastTools, alpaca_trade_api

Whale Analysis

- Calculated relevant portfolio metrics such as Beta, Standard Deviation, and Sharpe Ratios to interpret portfolio performance
- Visualized portfolio correlation with market standards for understanding each portfolio's performance against the S&P 500
- Languages: Python | Libraries: Pandas, Numpy, Seaborn, datetime

Deep Learning Stock Data

- Established a Deep Learning model to predict Closing Prices based off of the Closing Prices and a Fear and Greed Index
- Added multiple Long Short Term Memory (LSTM) layers to a Sequential model to create a Deep Learning Network
- Optimized the Deep Learning model through adjusting epochs and batch sizes to provide the lowest loss rate and highest prediction accuracy
- Languages: Python | Libraries: Pandas, Numpy, hvplot, TensorFlow, Keras, sklearn,

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EMPLOYMENT HISTORY

Oct 2020 — Aug 2021

Loan Officer, U.S. Small Business Administration
Fort Worth

• Analyzed reports on credit, income, and debts to assess applicant's eligibility during the Original Loan Processing Stage

• Resolved issues with current loans, by adapting loan documents to new information received after approval of loan

• Consolidated legal documents to assist applicants in receiving their Disaster Loan

EDUCATION

Aug 2021 — Feb 2022   Financial Technology Certificate, Southern Methodist University

Aug 2016 — May 2020   Bachelor of Science in Economics, Texas Christian University   Fort Worth