Matthew Johnson

Final Project Proposal

Data Visualization

7 September 2023

Project Idea: **Use Machine Learning to Predict Stock Price**

Field: **Finance**

Goal: **Compare the accuracy of the linear regression of stock price and the accuracy of a machine learning module at predicting stock price based on form 10-k data.**

Datasets:

* <https://www.kaggle.com/datasets/dgawlik/nyse>
* <https://www.kaggle.com/datasets/borismarjanovic/price-volume-data-for-all-us-stocks-etfs>

Projects Steps:

1. **Use Pandas to read, clean, and store data.**
2. **Use sci-kit learn Linear Regression module to predict next closing price.**

Project Requirements Used:

* **MASSIVE Datasets**
* **Sci-kit learn**
* **Linear regression machine learning**
* **Pandas**
* *Matplotlib? – for visualizations (may use other libraries for final project)*