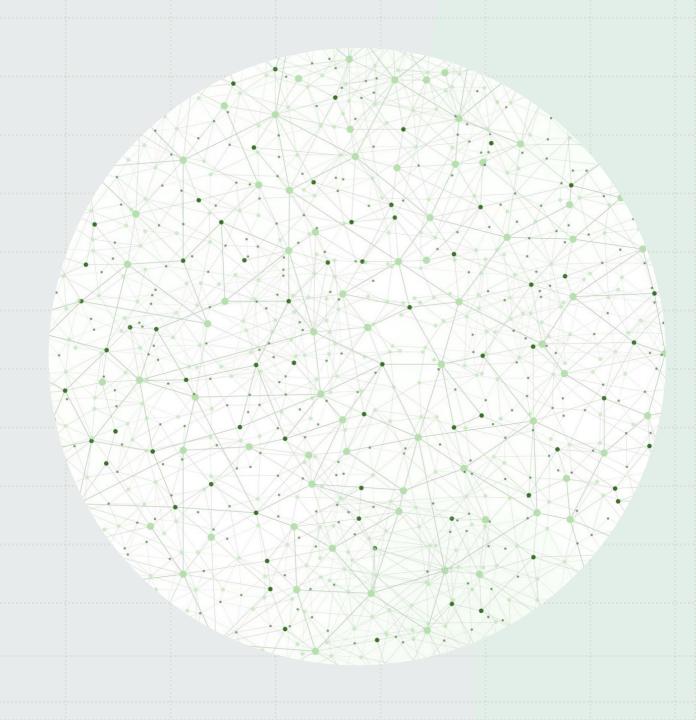
## Stock Market Analysis

By Justin Giovatto



## Introduction

- Main Business Problem:
  - Invest in three Tech, three Healthcare, and one Crypto
- Primary Project Goal:
  - Maximize Portfolio investments while minimizing risk over the next 6 month period.



## Methods

- Data will be used to create time series models in order to forecast stock prices
- Models will then be analyzed according to forecasted cumulative returns
- Will also check stocks' volatility & P/E ratios (secondary evaluation metrics)
- Portfolio recommendations will then be presented



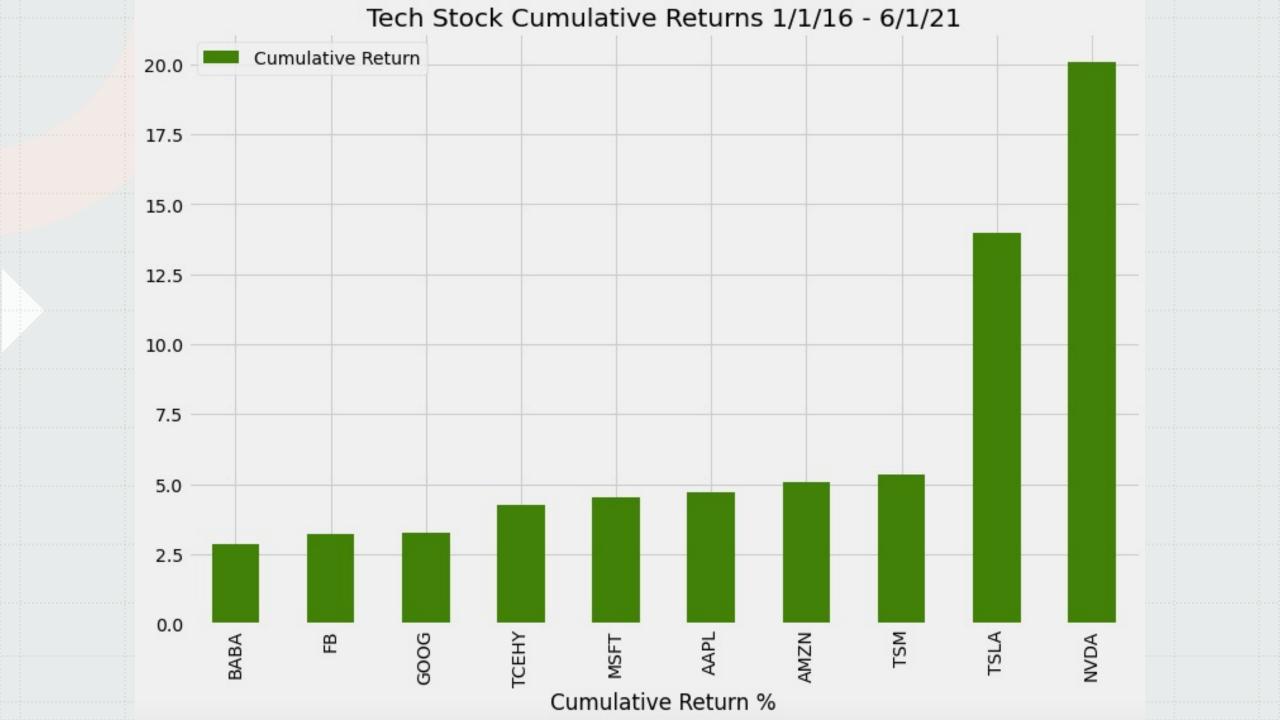
### Dataset

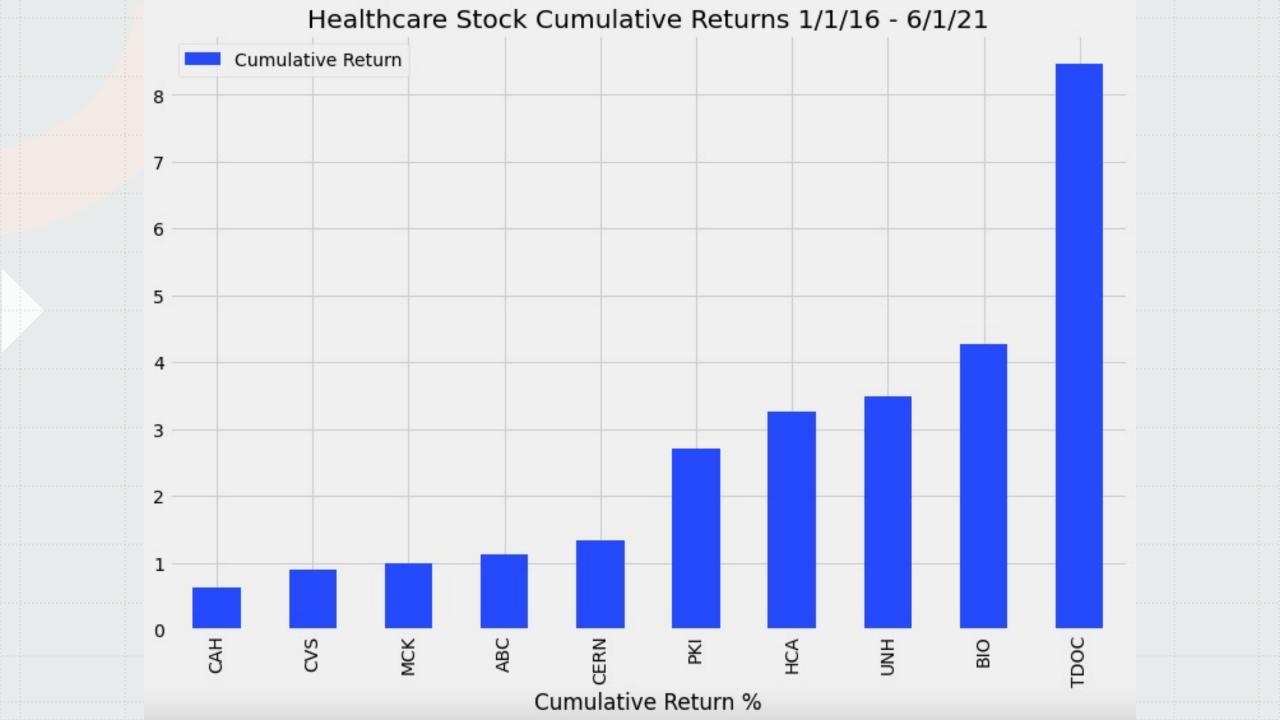
- Stock Data from Yahoo API
- 1/1/16 6/1/21
- Top 10 Tech
- Top 10 Healthcare
- Top 5 Crypto
- Stock Features





# Analysis

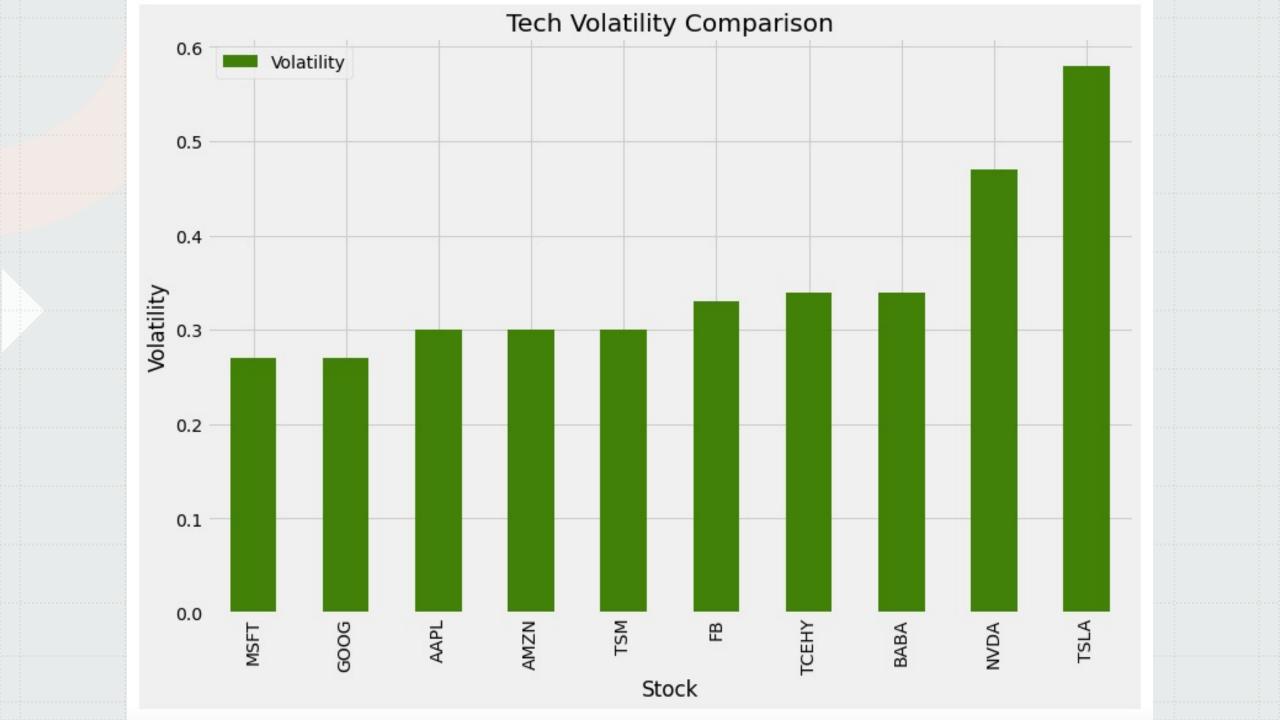


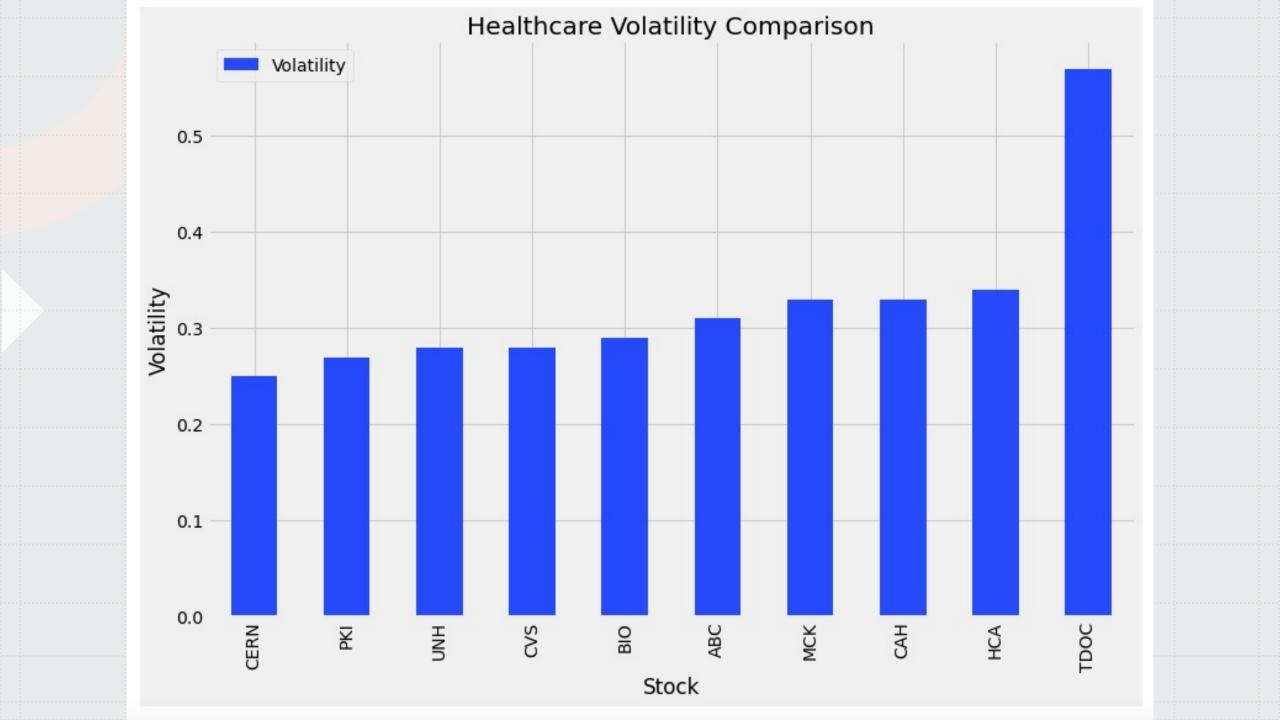


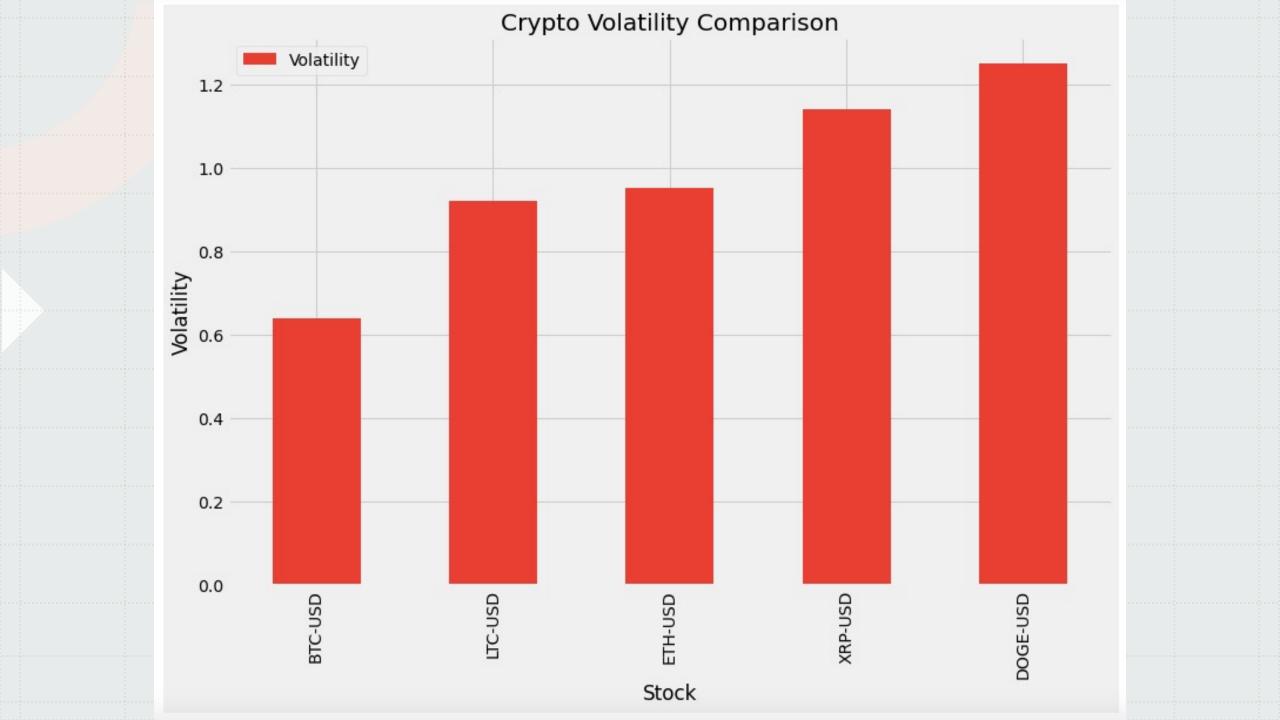




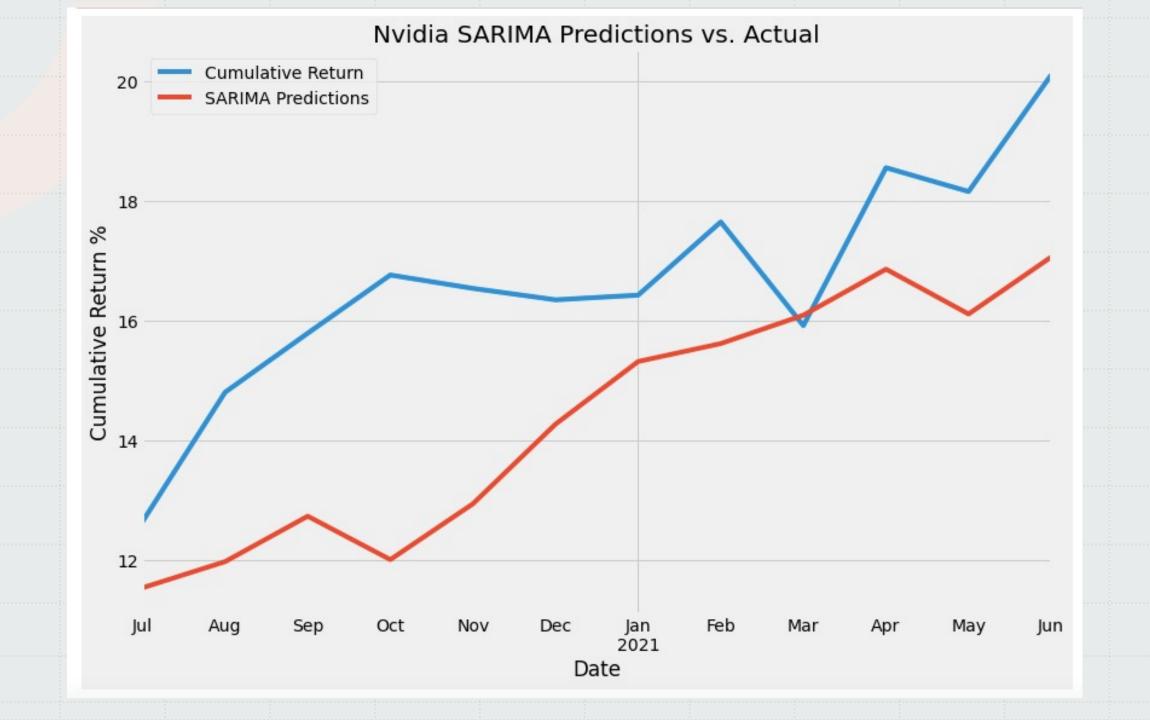


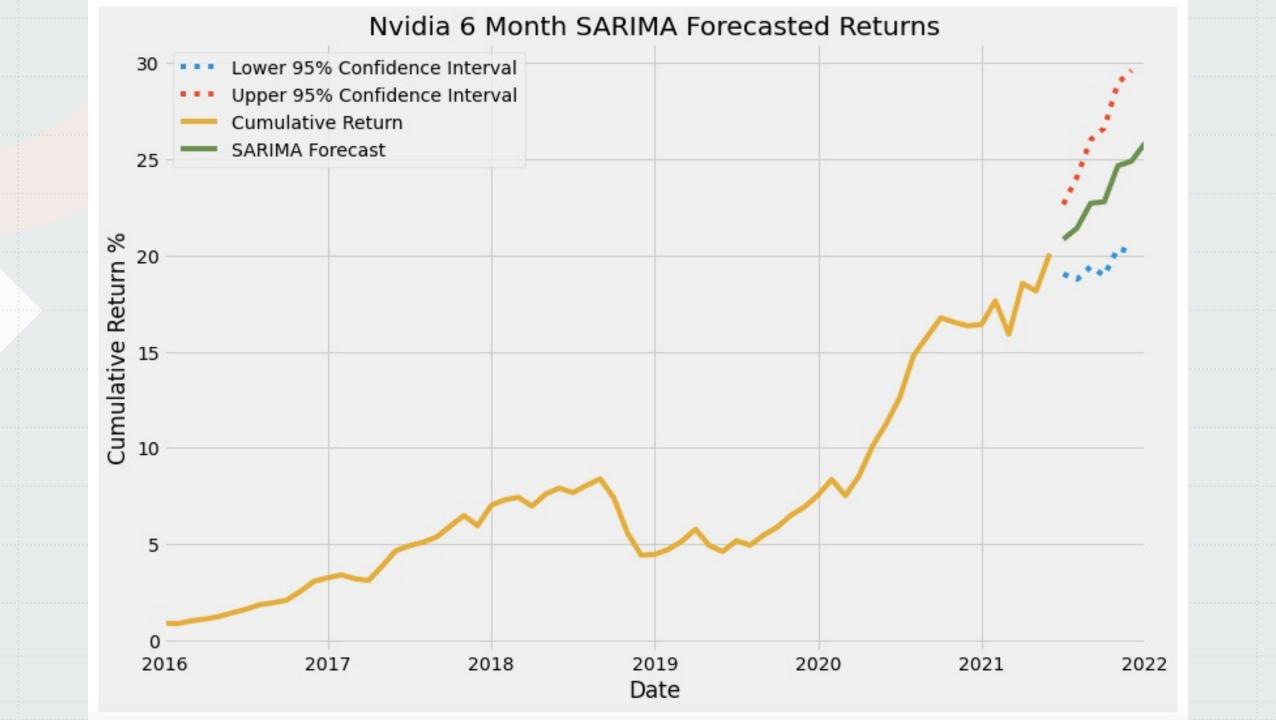


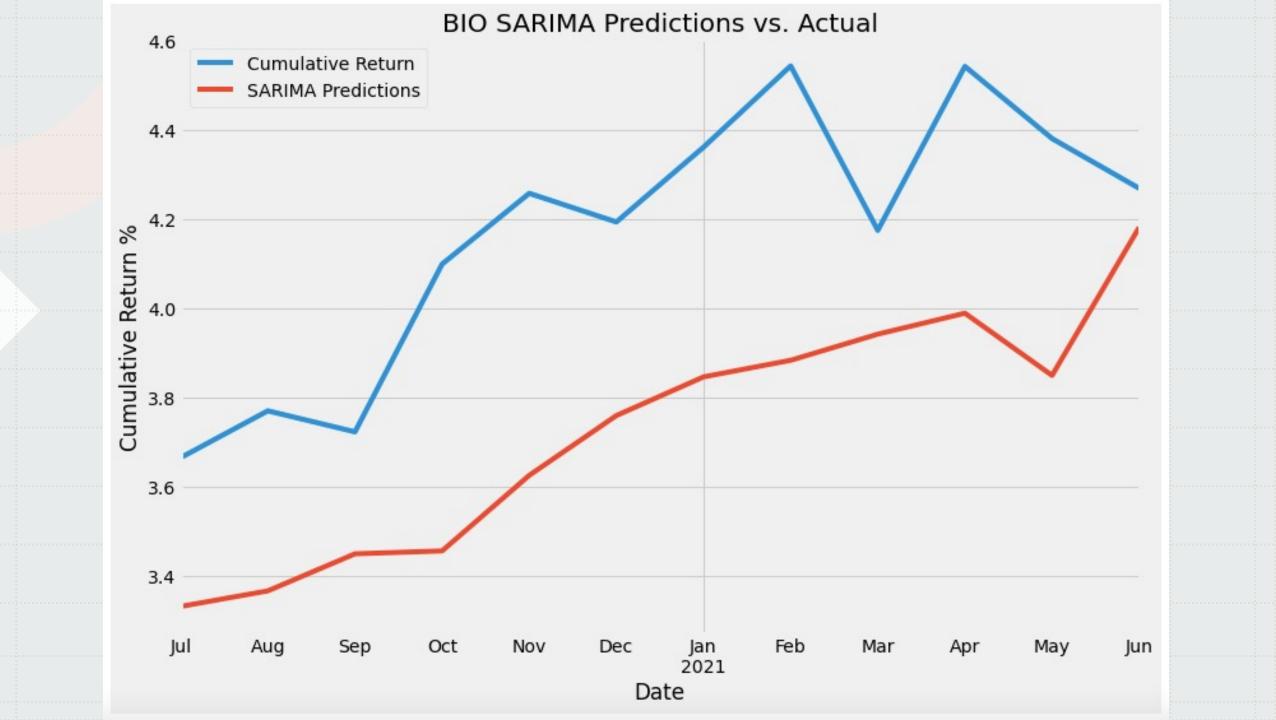


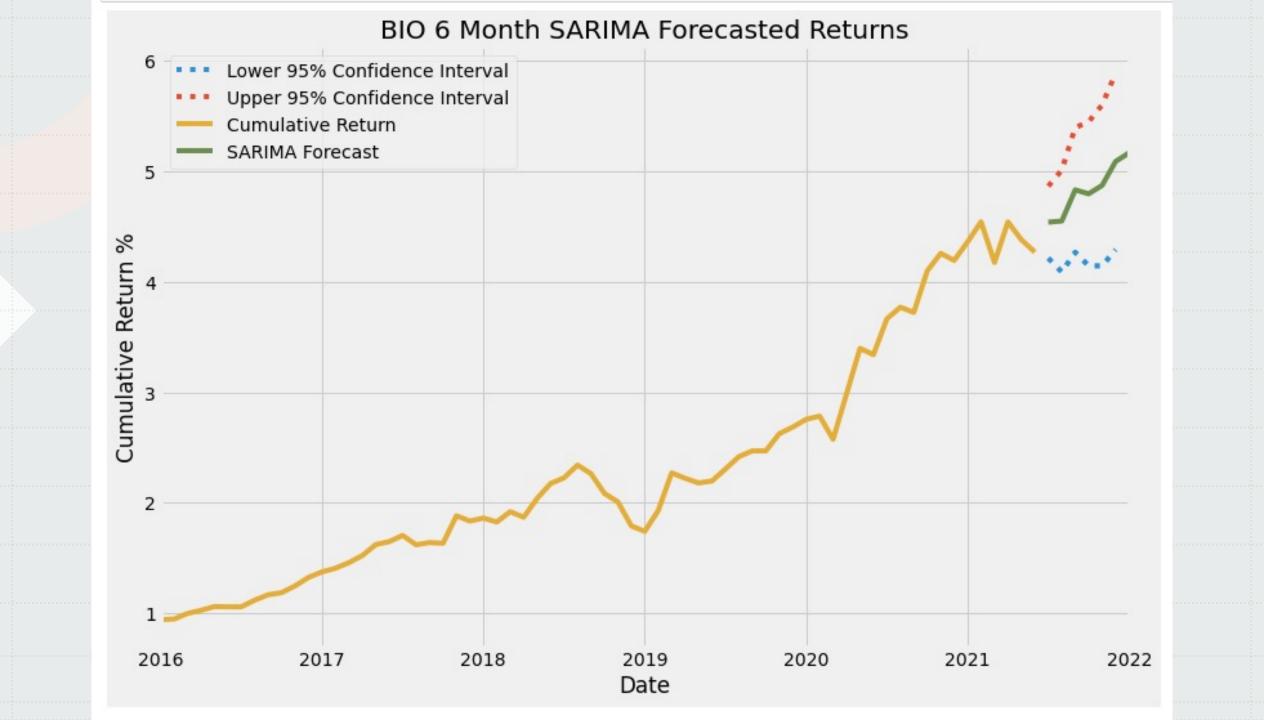


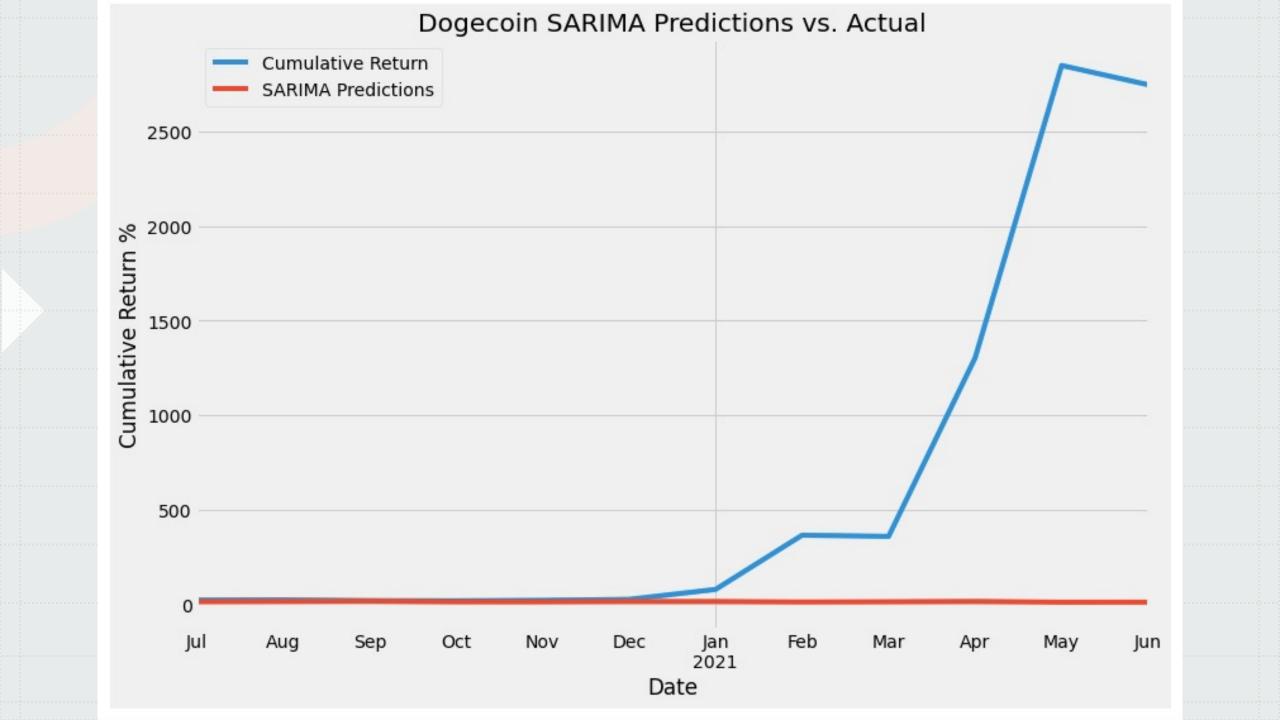


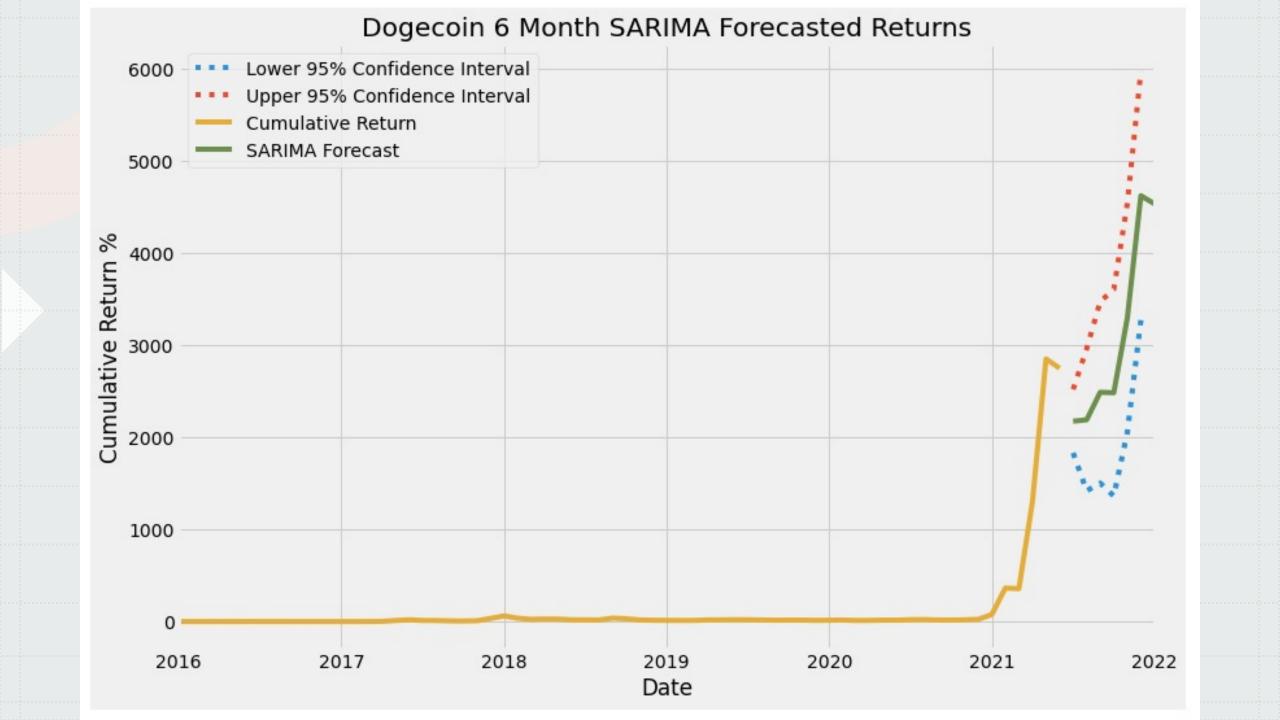


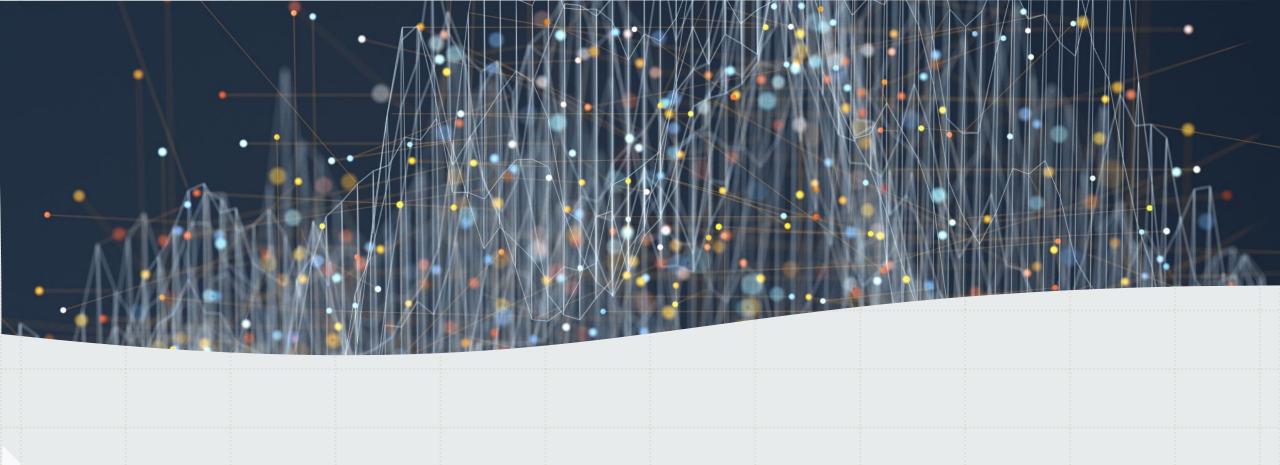




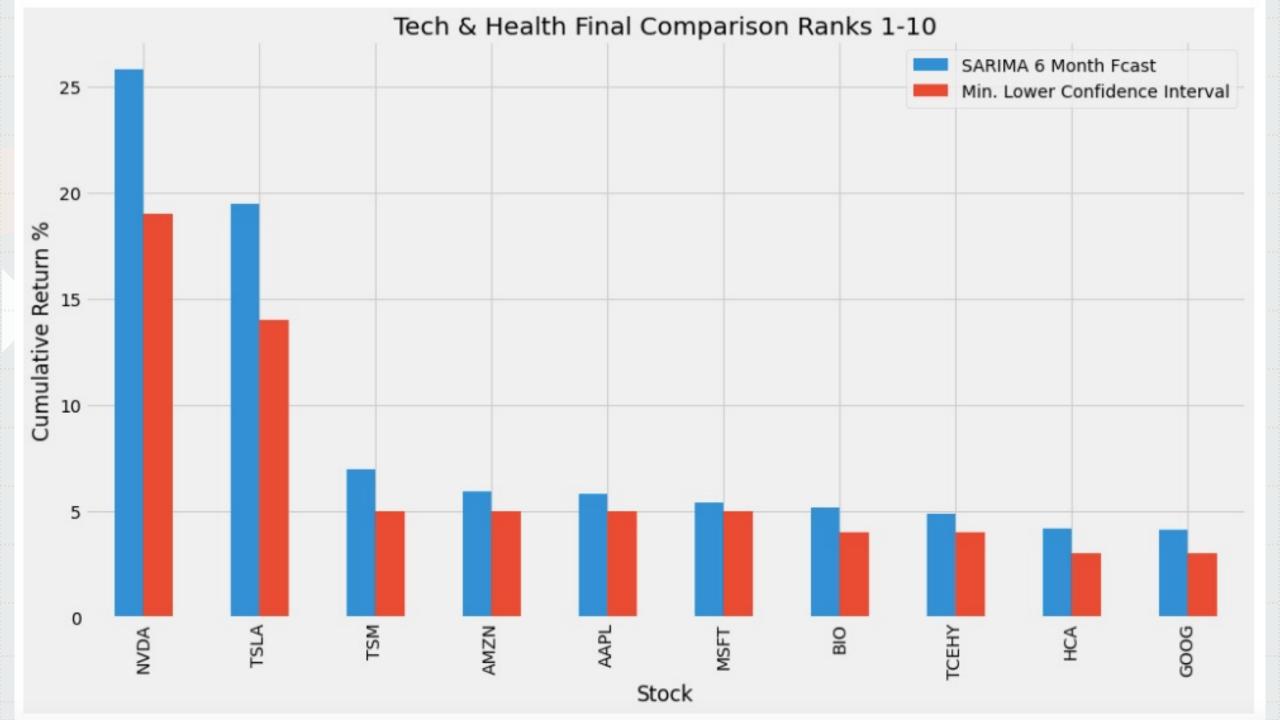


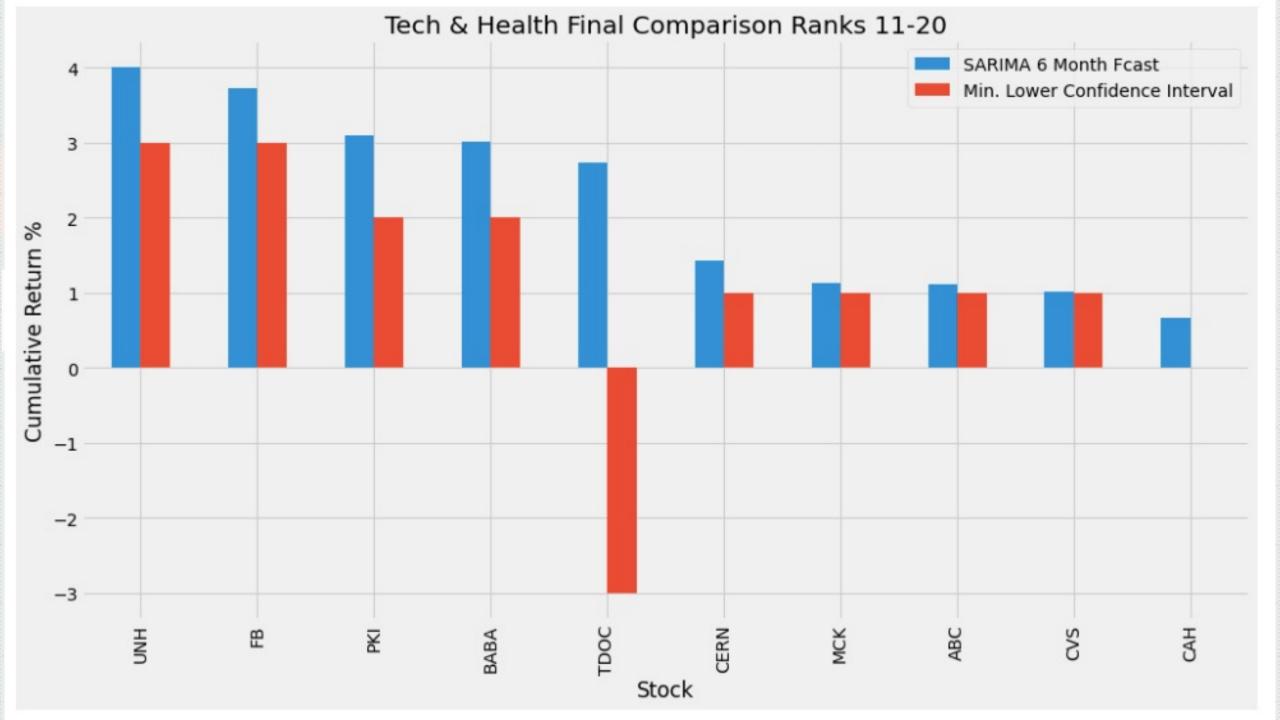


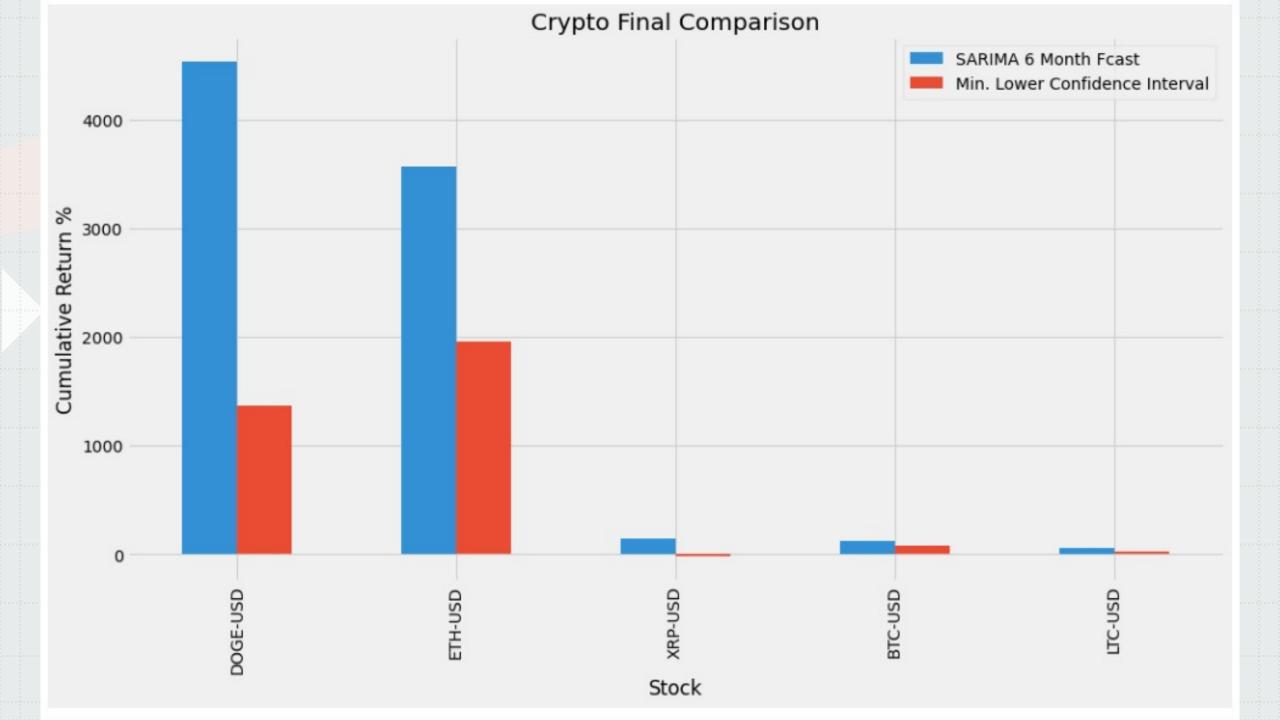




## Final Analysis/Recommendations







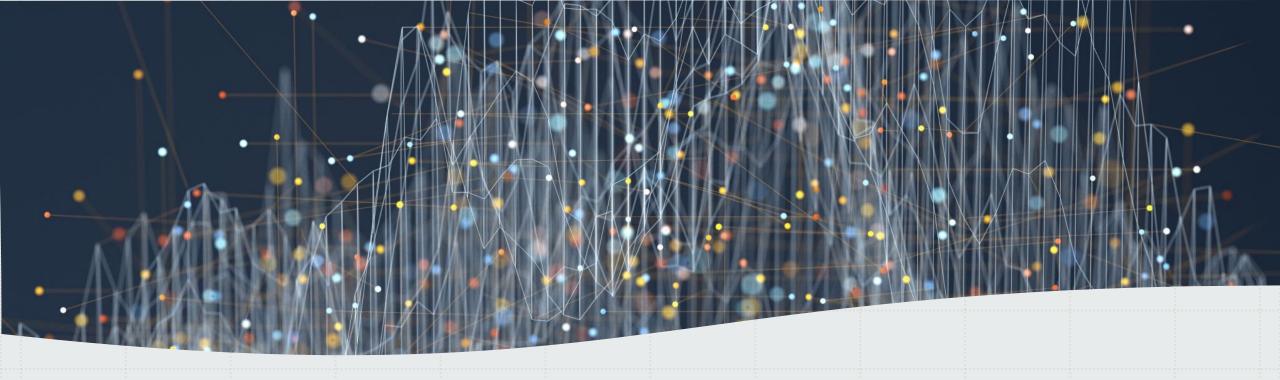


## Portfolio Recommendations

Tech Stocks: Nvidia, Tesla, TSMC

 Healthcare Stocks: Bio-Rad, United Health, HCA

• Cryptocurrency: Ethereum



#### **Future Work**

- Add another model type (RNN)
- Add more stocks for analysis
- More stock evaluation metrics for analysis

# Thank You! Questions?