

# Phase 5: Report of Comparison Graphs for Stock Predictions

**Andres Camilo Viloria Garcia**  
aviloriagarcia00@mylangara.ca  
*Data Analytics*  
*Langara College*  
Vancouver, BC

**Diana Sayuri Ortiz Montes**  
dortizmontes00@mylangara.ca  
*Data Analytics*  
*Langara College*  
Vancouver, BC

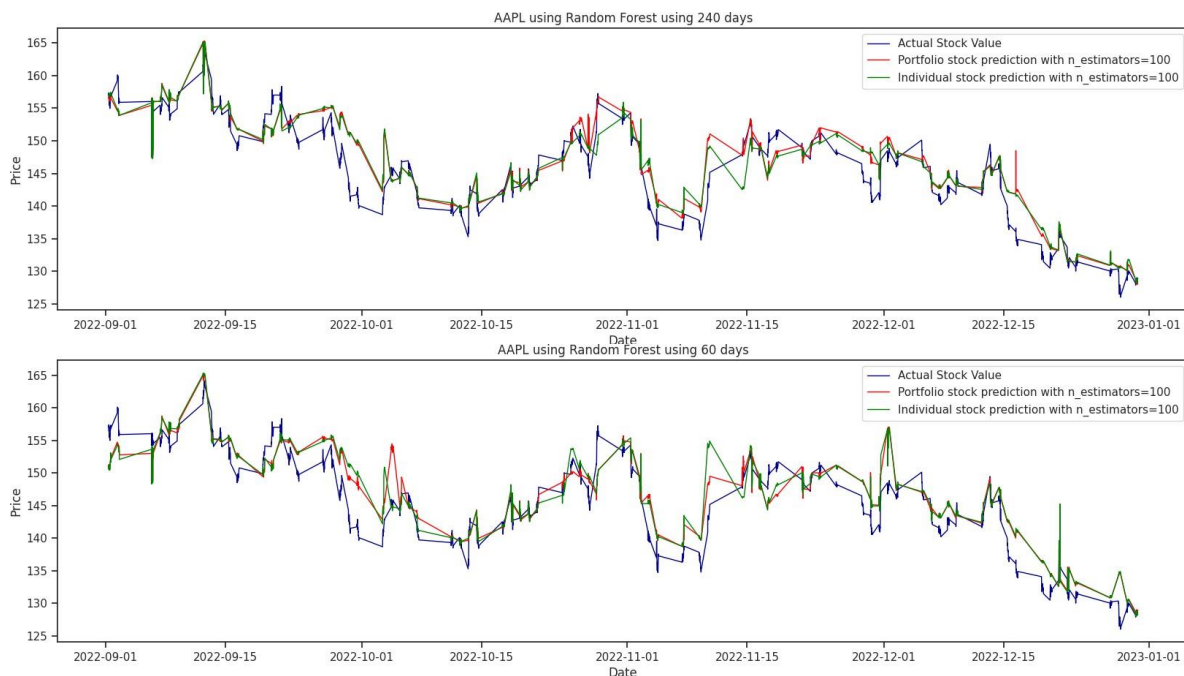
This document has graphs for four stocks - AAPL, TSLA, F, and WMT. It shows the real stock values and predictions from three models (Random Forest, MLP, and XGBoost). To make things clear, our team picked the best-performing model settings for each stock. We mainly considered Mean Percentage Error (MPE) and Mean Time Taken (MTT) for choosing these settings.

## Resources

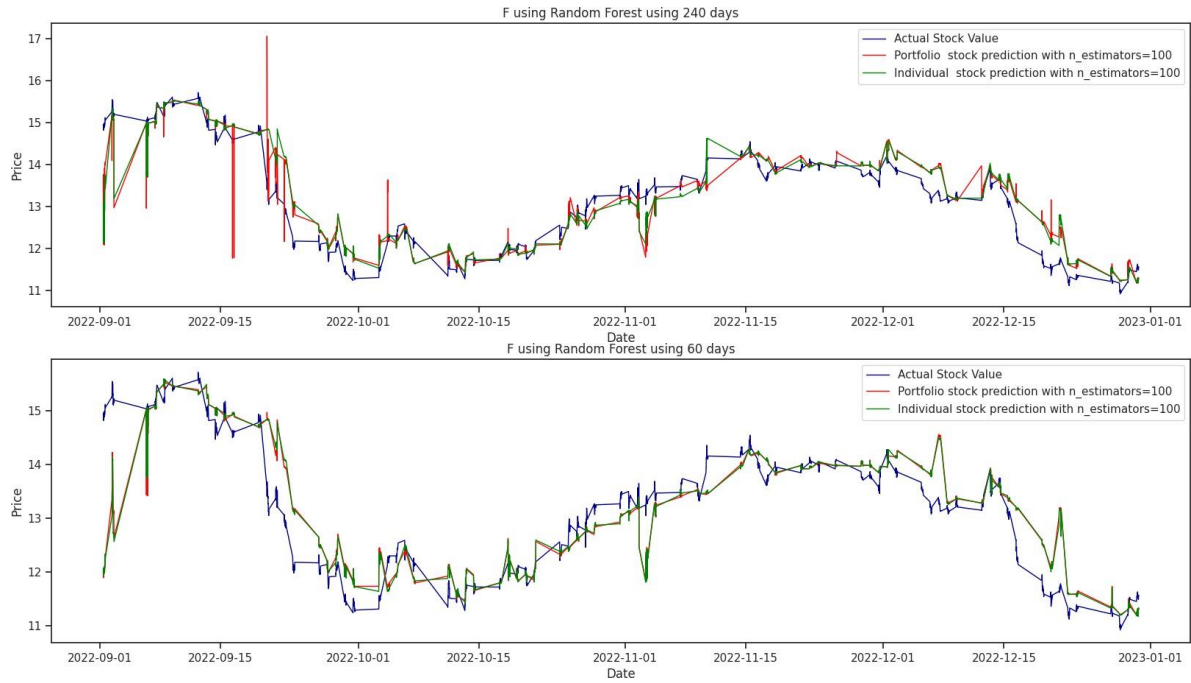
If you ever need the Python code used to create these graphs, you can locate it in the designated folder [6. Models Graphs from Dropbox](#) in the file [6.2 Development of Comparison Graphs for Stock Predictions.html](#). The data can be extracted from the folder [6.0 Stock Predictions Graphs - Data](#).

## Random Forest

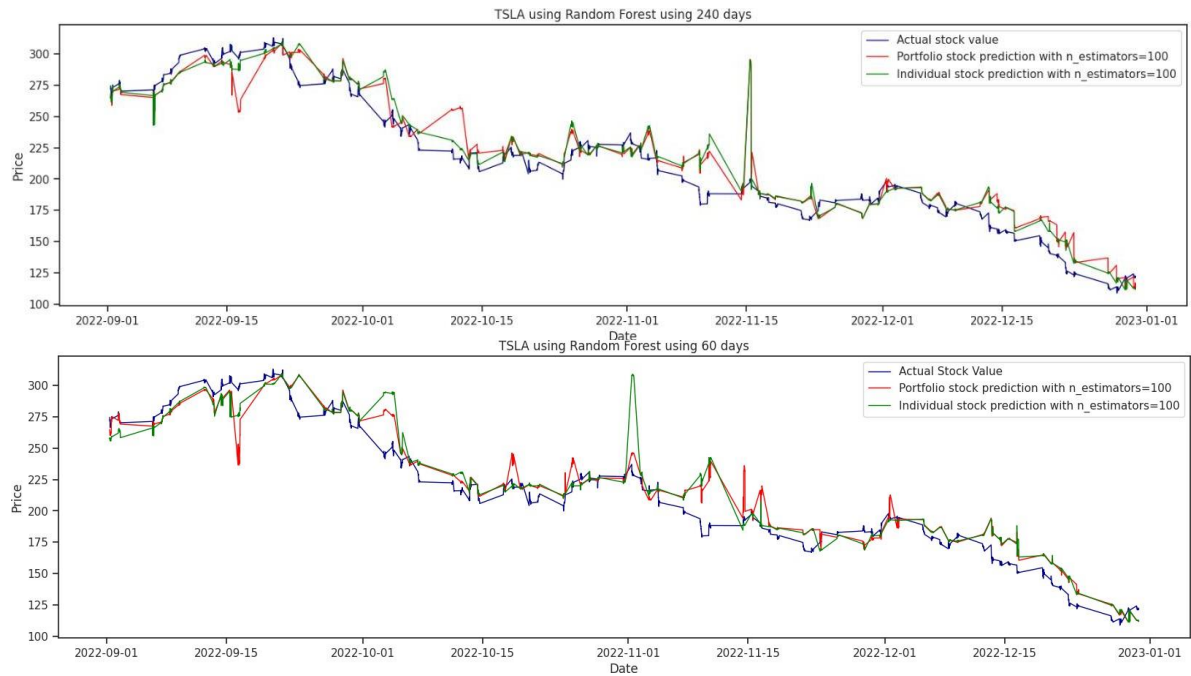
### AAPL



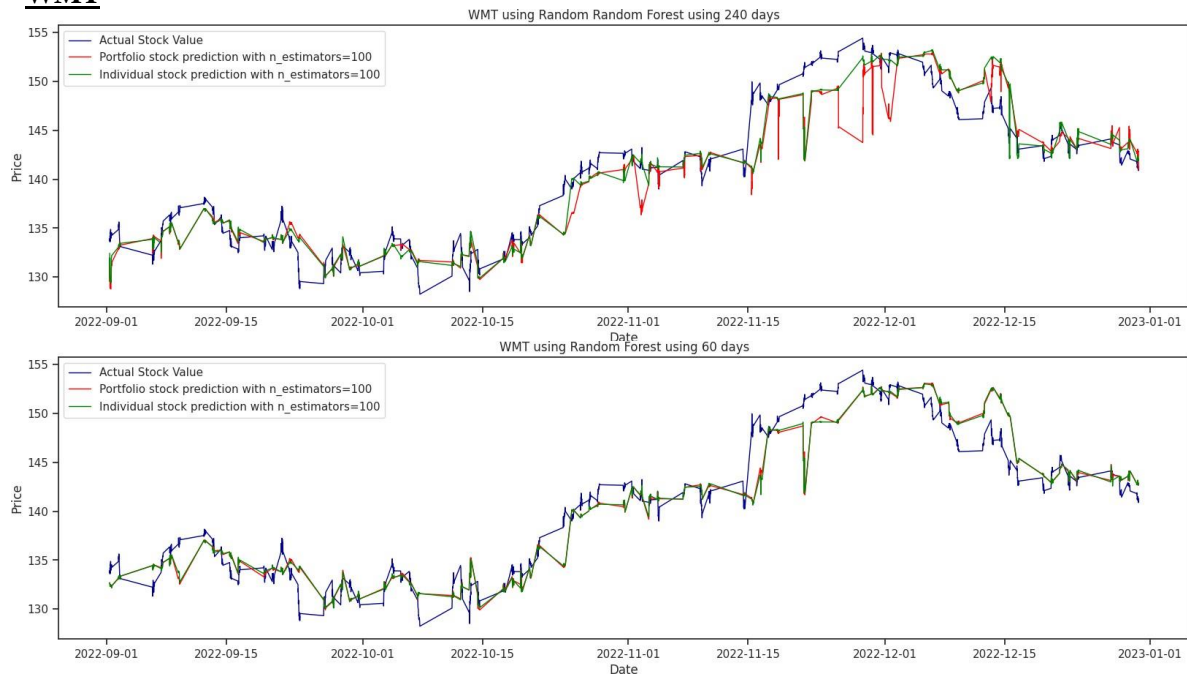
**F**



**TSLA**



## WMT

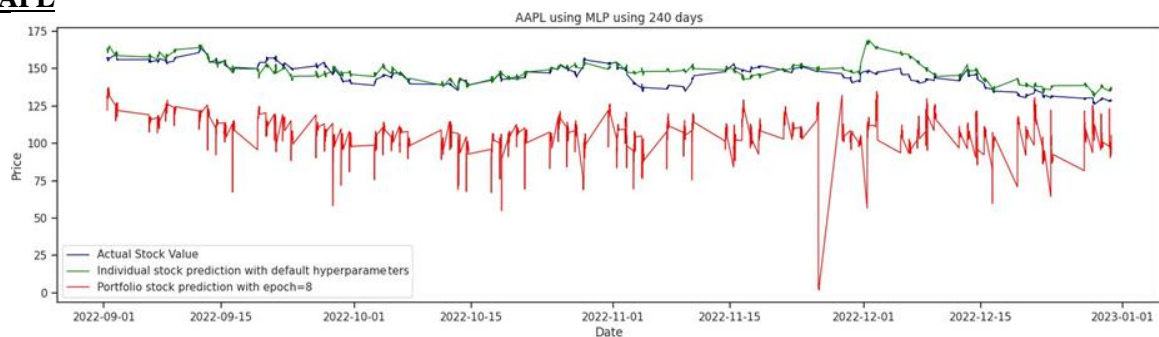


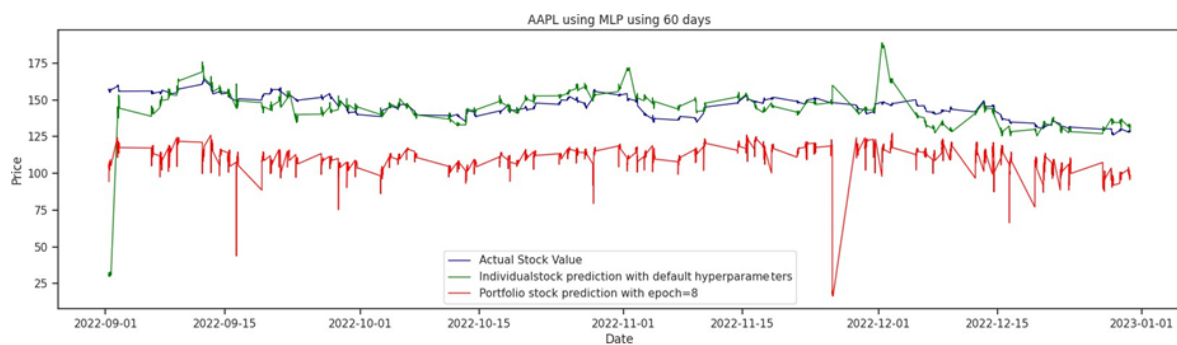
## MLP

The default hyperparameters were employed for certain graphs, which is why the specific hyperparameter values were not mentioned in the legend. However, they can be found in the following list:

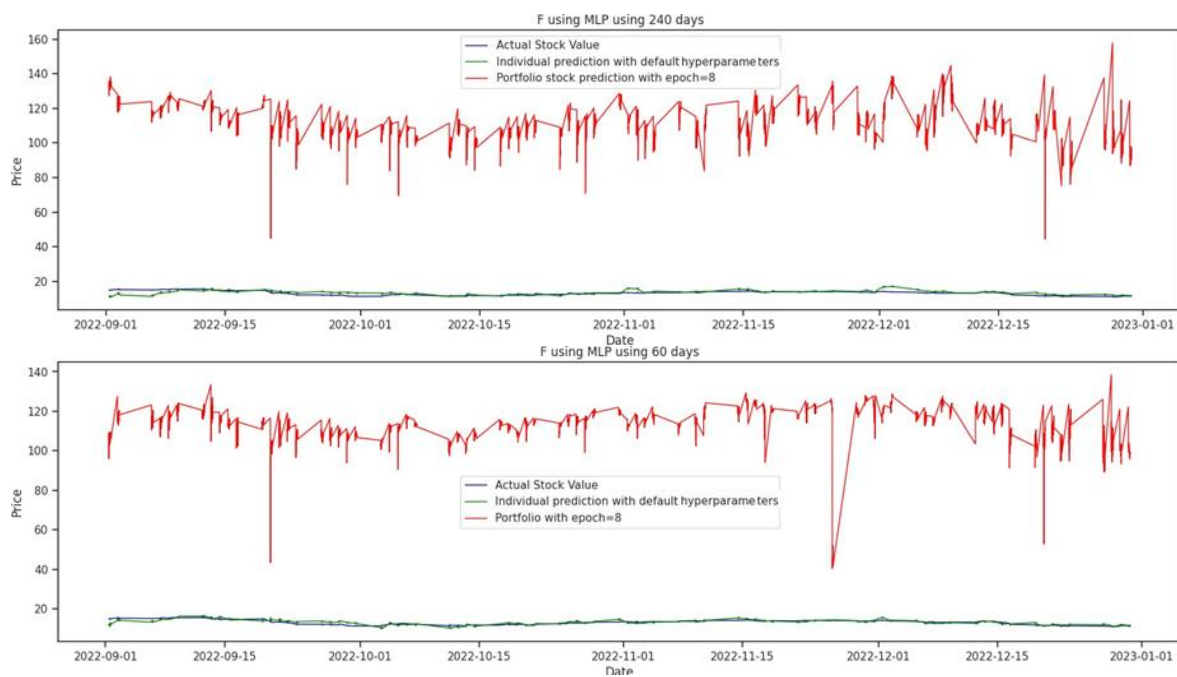
- **Default value for batch size:** 32
- **Default value for epochs:** 1

## AAPL

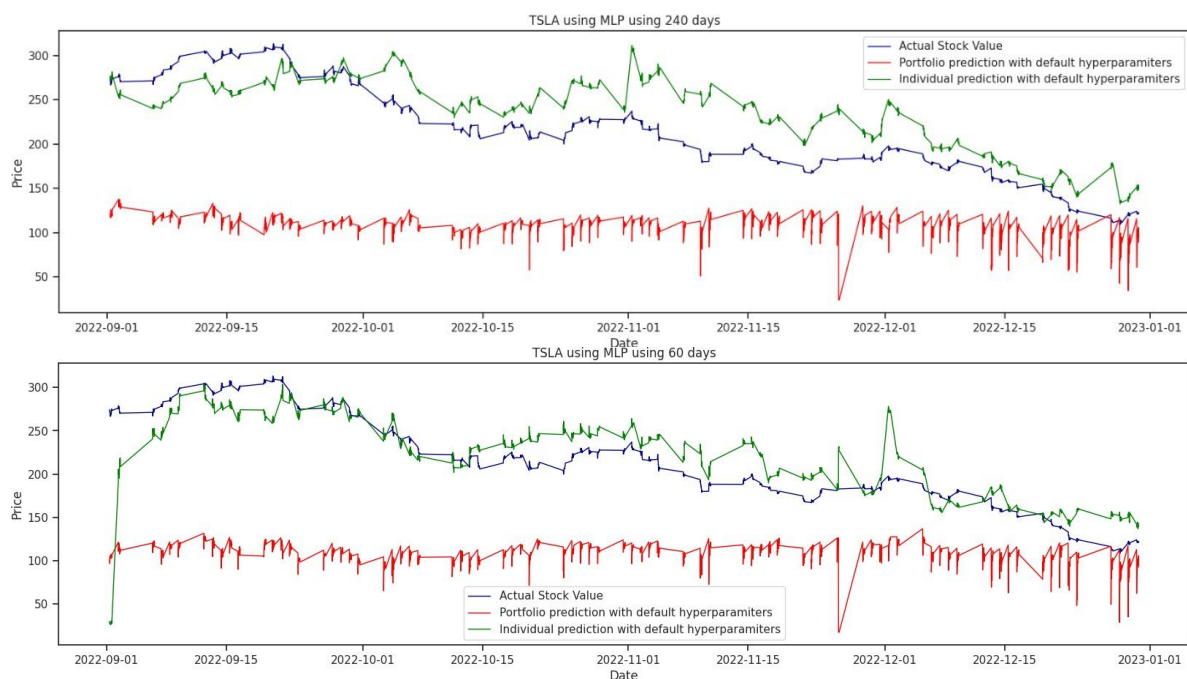




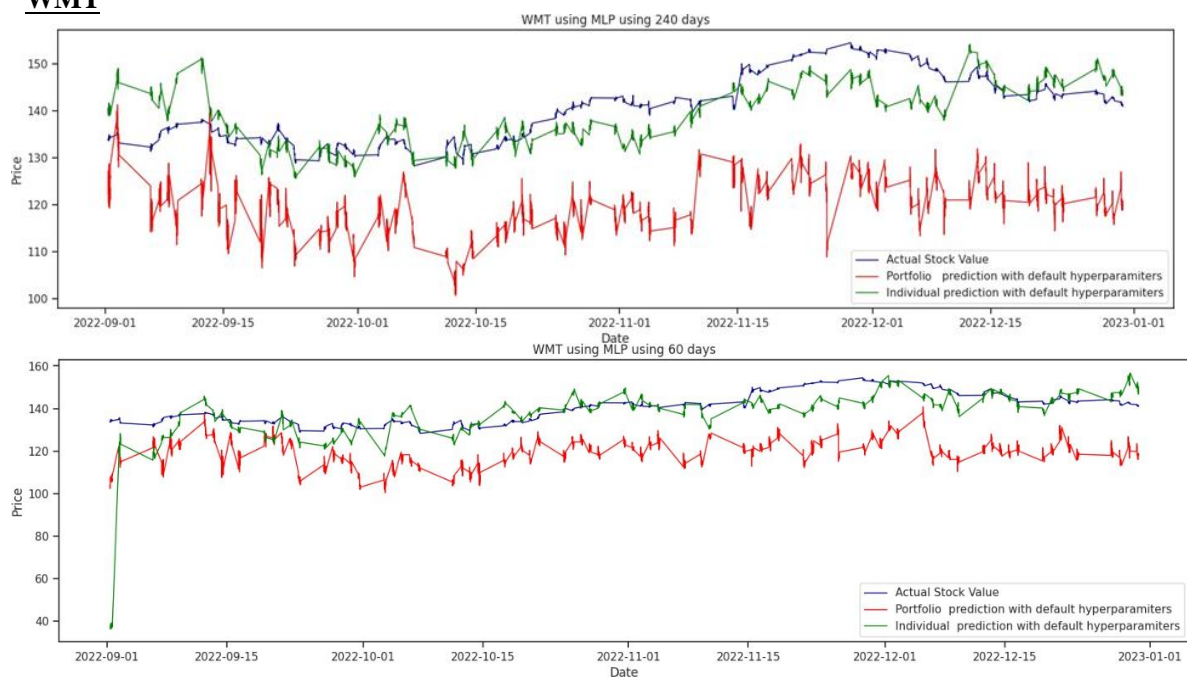
**F**



**TSLA**

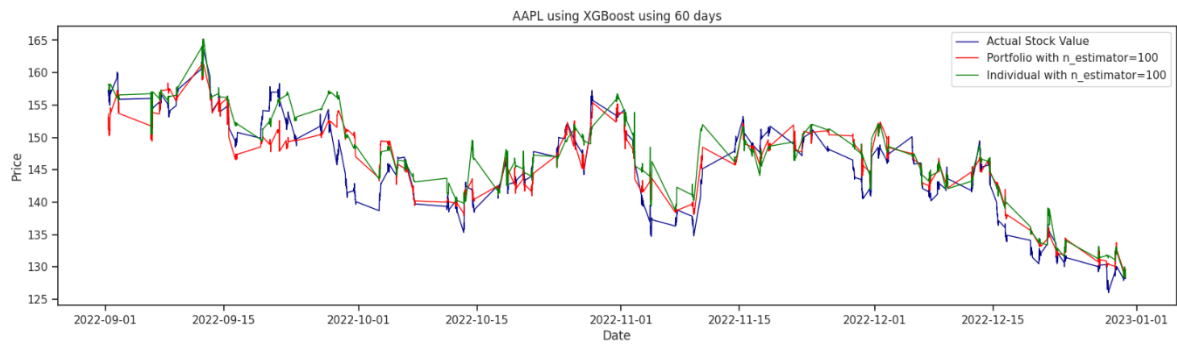
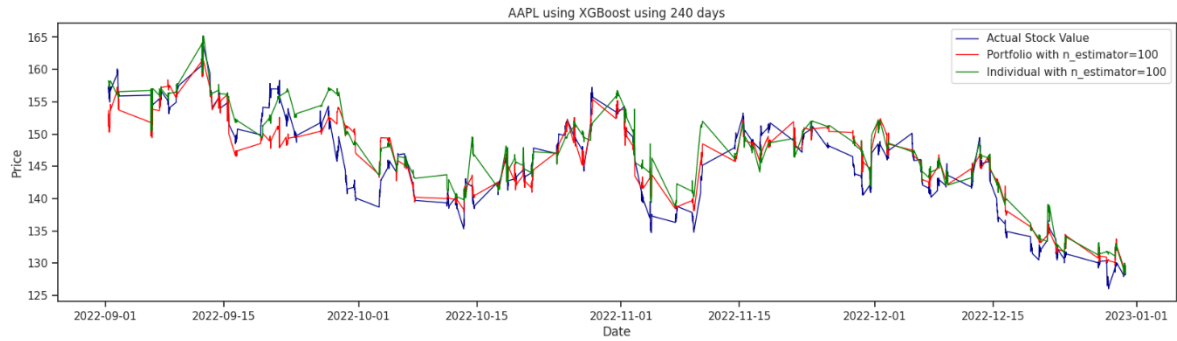


## WMT

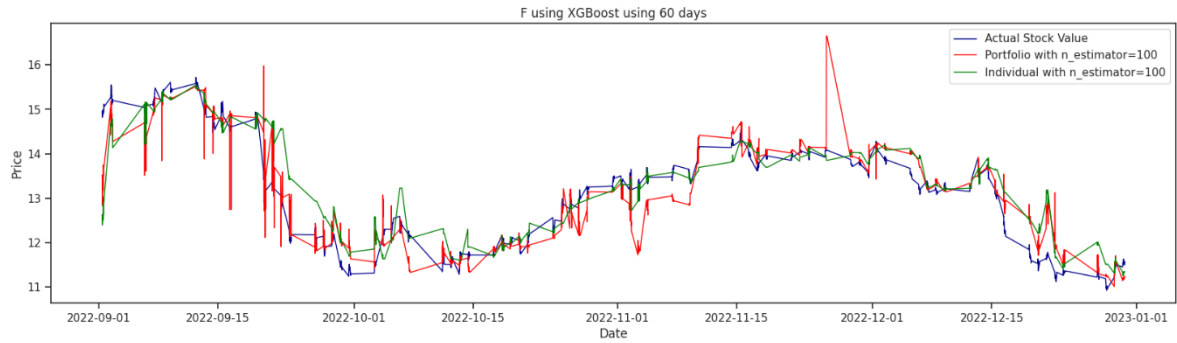
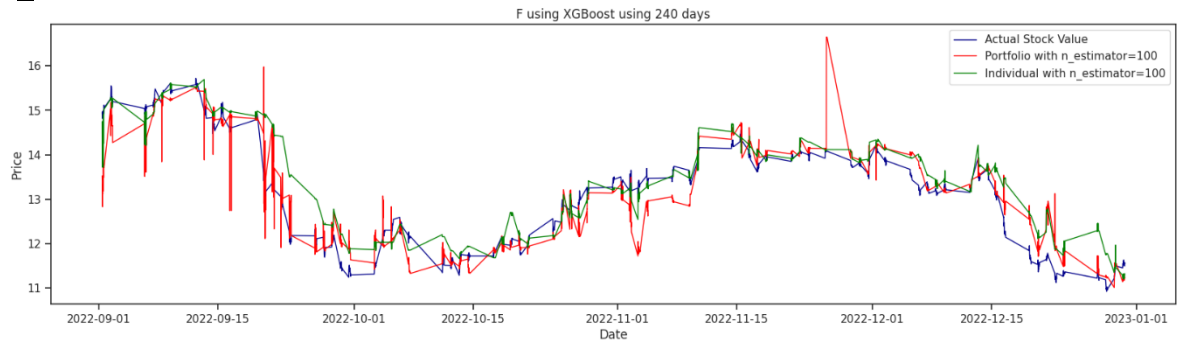


## XGBoost

### AAPL

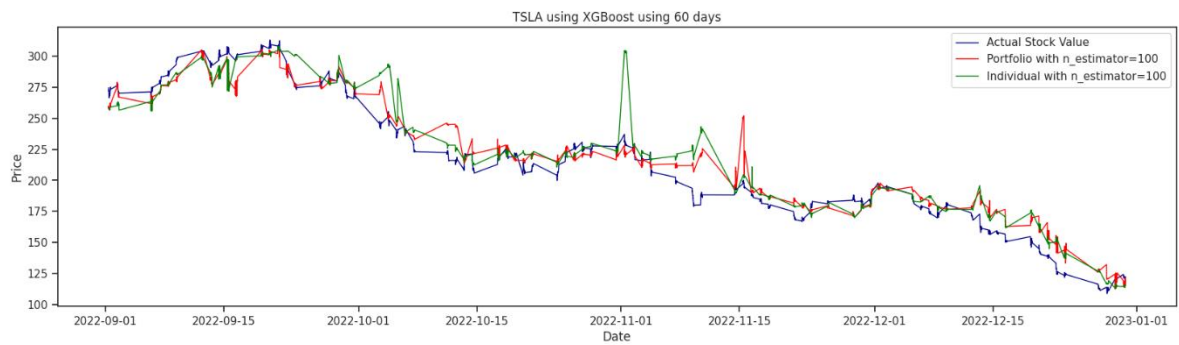
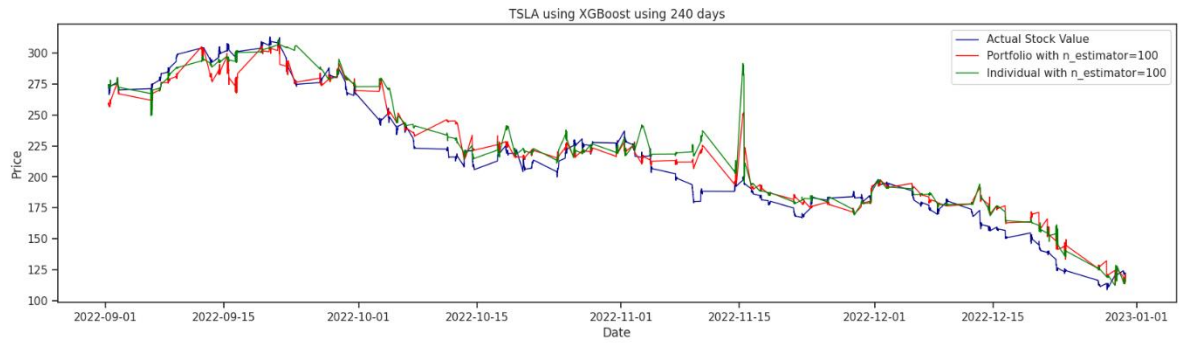


### F





## TSLA



## WMT

