**Meeting Minutes – Captone Project – Stock Forecast**

**Location:** Zoom meeting

**Date:** November 6, 2023

**Time:** 12.30 pm to 1.30 pm

**Attendance:**

* Yew-Wei Lim
* Diana Ortiz
* Andrés Viloria

**Discussion:**

* The documentation results from the previous week were presented. The discussion focused to deliverables: code collection, which involved extracting data from Yahoo Finance and transforming it to make it suitable for utilization in machine learning algorithms and data quality evaluation. It was presented how are organized in the Dropbox folder.
* For the plan of this week the team will perform the experimentation with Hyperparameters for XGBoost (num\_estimators and max\_depth):
  + Attendance agreed to conduct experiments with the hyperparameters num\_estimators and max\_depth for XGBoost.
  + The ranges for num\_estimators were set from 100 to 400, and for max\_depth from 6 to 100.
* Limiting Hyperparameter Tuning to Individual Stocks:
  + It was decided to focus hyperparameter tuning efforts exclusively on individual stocks.
  + This approach will ensure a more targeted and specific optimization of hyperparameters.
* It was discussed the importance of Inclusion of Demographic and No Demographics Data even though the results do not significant differences with the current changes of hyperparameters, it might change with next step of hyperparameters tuning.



**Action Items:**

* Conduct experiments with num\_estimators and max\_depth for XGBoost within the defined ranges.
* Focus hyperparameter tuning efforts on individual stocks.
* Analyze the impact of including demographic and no demographics data in the mode while changing the max depth hyperparameter.