

Project - Stock Trading Bot

What we're working on:

- 1) Reading about the MACD (Moving Average Convergence Divergence) indicator, the NEAT and Naive algorithms
- 2) Trying to gain a deep understanding of previously implemented Stock Trading Bots using different strategies such as <https://github.com/mafischer/trader-bot>
- 3) Learning new technologies - Tensorflow, PyTorch and making a tradeoff between the two
- 4) Learning about web socketing - we plan to implement a middle-ware of JavaScript to handle communication between front-end and back-end

Challenges we're facing:

- 1) We're still in the process of looking for an appropriate data set that fulfills our requirements and does not take a lot of training time
- 2) For our success criteria, we are unsure which prediction model will be the best - predicting for a consecutive fiscal year based on one year's data or predicting for a fiscal year based on decade long data - the training time and complexity will increase for the latter, but can provide a much accurate result

How Professor Santiago can help:

- 1) Help us give clarity on which success criteria would be better
- 2) Help us give a better view on the technologies/ ML algorithms we should use