

Investment and Trading Predictive Model

The webscraping achieved in this program was done with the assistance of tutorials available on pythonprogramming.net

Many syntax dilemmas were solved using stackexchange.com, Quandl documentation, and sklearn documentation.

The support vector machine built was made with reference to previous Udacity projects, sklearn, and tips from stackexchange.com when handling preprocessing errors.

The web scraping tool works but takes time, the Loading... iteration exists to remind the user that the program is running, albeit slowly.

Following the prediction output, the user receives the opportunity to explore 3 of the suggested ticker symbols and to give an appropriate date range.

In order for this portion to work, the user must have access to the Quandl API. It will need to be installed into the Anaconda environment from this source:

<https://docs.quandl.com/docs/installation-1>

At the beginning of the program there is a request for an authorization token, which you should have access to from Quandl after installation, it will need to be added for the program to run, and I figured I probably shouldn't be sharing my authorization token with everybody.

The repeated output of ticker percentage (percent of tickers that outperform), total trades, accuracy, etc. are useful to see how the output changes as it cycles through testing trials.

Access to specific spreadsheets (that are a bit too much to compress in a zip file) is necessary to run the predictive models. They are suggested databases from pythonprogramming.net tutorials and can be accessed at

<https://pythonprogramming.net/static/downloads/machine-learning-data/intraQuarter.zip> (to download IntraQuarter.zip)