**LSTM for Market Prediction**

**Scope**: Use LSTM to predict trends in the market and base our choice of buying/selling on those trends in order to a) maximize ROI or b) reduce Risky Investments

**Objectives**

Import and structure relevant market data

Divide into train and test databases

Train model on dataset

Predict trends in Market stock values

Make decision about position on the stock

Calculate ROI at end of trading period

**Stack**: Python

Tensorflow

Numpy

Pandas

PySimpleGUI

Matplotlib

Fix yahoo finance

**Introduction**

Why do we need Time Series Model?

We would like to model stock prices correctly, so as a stock buyer we can reasonably decide when to buy stocks and when to sell them to make a profit. This is where time series modelling comes in. Good machine learning models are those which can look at the history of a sequence of data and correctly predict what the future elements of the sequence are going to be.

**Applications**

**Conclusion**

**Future Work**

**References**

**Appendix**

Code: