**Supervisory Meetings**

**Meeting 1 – 10 Oct 2023** – Initial meeting for us to introduce ourselves to the supervisor and let Frank explain the first half of the slides on deep learning (Time series data and seasonality).

**Meeting 2 – 17 Oct 2023** - Frank went over the second part of the slides and answered our questions regarding the project.

**Meeting 3 –24 Oct 2023**

Hand-written digit recognition

Time-series prediction

LSTM Networks(Long Short Term Memory Networks) are directly related to the stock prediction project

CNN vs RNN

Identify pattern, go layer by layer, t

It goes from bottom to top

Recognising 1 involves analysing the middle layer first.

**Import numpty as np and import pandas as pd**

Using 60 days to predict one day

Datasets in Blue and the yellow is the test

Interface, training data

Look at the previous project

Look at the data set from Bitcoin or related to time-series

Tkinter - Grid HTML

Get the data and scale data

Use RNN

Split the data then test it with data.

We need to use LSTM with RNN.

**Meeting 4 –31 Oct 2023**

A model should run from a dataset

The Steven’s code is a skeleton code

Use LSTM but used simple RNN before - The dataset that is being used Yahoo Finance Stock market price (TSLA)

Data training takes time dependent on the computer.

Blue is historic and orange is predictions/

Simple RNN predicts tracks more accurately.

Steven created the dataset. Rishabh made the pre-processing better,

Originality receives a good mark

Integrate and Incorporate YOUR OWN IDEAS.

Merge the LSTM

**Meeting 5 – 28 Nov 2023**

**Meeting 6 – 5 Dec 2023**

Strong position to implement performance or increase performance

Research papers

Time-series

If you want to show strong research aspect then you need to reference 10 papers

Implement or improve something and make the project very strong

Research

Application domain

Accuracy or speed

Read 10 papers – a meeting to introduce the papers they read.

2 papers each

15 references

**Meeting 7 – 13 Dec 2023**

Looking for different libraries for the GUI like Dash

Discussion on Tkinter for GUI

100 epos – Processing speed

Research papers on speed accuracy and GUI.

Standard averaging and EMA discussion.

Integrating chatgpt into the stock price prediction