**PROJECT 3 DEMYSTIFYING ML**

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**Title: Analysing the Top 5 ASX Share Market Capitalisation Companies**

**Dataset:** Yahoo Finance history downloads

**Tasks:**

Designing a webpage with a navigation bar, each of the 5 companies linked to visualisation pages.

Graphical user interface, text, application

Description automatically generated

The Homepage has a machine learning button to predict prices!

Graphical user interface, text, application

Description automatically generated

Provide interesting summaries in each of these 5 and graphically/interactively visualising this content in a web page for each sector selected

Machine Learning: Predicting daily share prices using LSTM and perhaps GridSearchCV time permitting.

Saving predictions output into MongoDb from Jupiter notebook for Predict button.

Table

Description automatically generated

Saved company share price information into MongoDb and using flask app to load onto webpage.

Using company share price information and D3 for visualisations like scatterplots ect.

Do some web scaping in company pages!

We will use AWS.

<https://github.com/antoinetteboyle/Demystifying-ML>

Finding getting the data from MongoDb in a json format for our visualisations tricky!

QUESTIONS:

Data is 5000+ rows so Webpage really slow to load???

We have used Time Series Machine Learning LSTM with a good accuracy but Gridsearch Cv Model gives a 76% accuary . Should we do both the models?

Do we need to give the user a chance to do inputs? Or is our predict button good enough?

Can we do one different visualisation for each of the 5 companies?