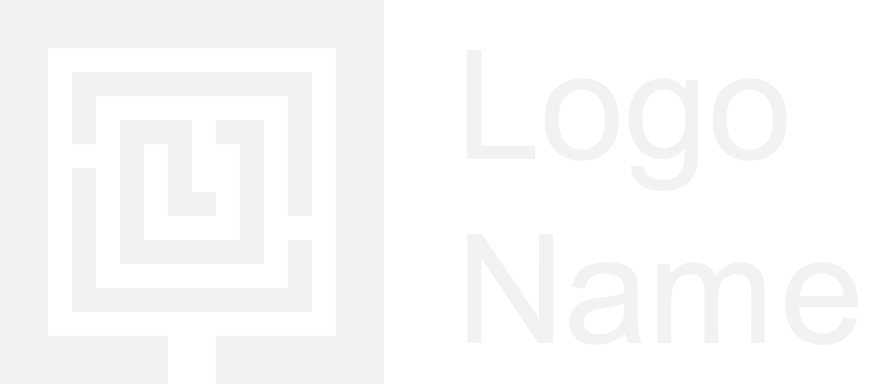
|  |
| --- |
| PROJECT 4  ACTION PLAN  Tracie’s wrap-up what we agreed today |
| Pandas Group |



## What to focus:

## Candle stick chart for prices over times

## Volume (transactions) during the chosen period

## Machine Learning 2 models applied and method to evaluate those model’s accuracy.

## The Presentation Strategy

### **Introduction**

*30 seconds*: walk thru the Pandas group continuing with previous project and the client are interested in Banking Industry to consider investment.

Today, we come out with our findings on:

1. How the Stock Prices and transaction Volumes trends go in the chosen period. Why and what make these trends.
2. What the stock Prices will go in the up-coming period in entire 3 Stocks in this industry.
3. What make us confident to consult the client for investment.

#### Main Presentation:

2 mins: introduction ab the project requirements

5 mins: Present the 3 Stocks trends with Tableau visualization.

6 mins: Present the LSTM model applied in 3 stock and what are our Prices prediction result and the evaluation model (F1 score | RMSE) that used to test the above LSTM model to convince the investors.

2 mins: wrap up to affirm our results and thank you. Likely put some fun fact.

**MACHINE LEARNING PRESENTATION NOTE TO THE WEB:**

**Which Models were used?**

* **Long Short-Term Memories (LSTM) from keras** is a Recurrent Neural Network (RNN) based architecture that is **widely used in natural language processing** and **time series forecasting.**
* In another saying, it’s an artificial neural network used in AI and Deep Learning.
* This is the **most popular** model people use to **predict stock** | crypto trends (prices) now.
* Library: Sequential | Dropout | Dense…

How to evaluate the accuracy of our Model:

* Use F\_Score to evaluate the LSTM model or we can say, to make sure our prediction is reliable.
* Calculate the RMSE: Root Mean Squared Error by sqrt function

The Results:

BAC:

[put the graph of BAC + score image and present ab it]

F.score: 73% which is really good compare to the market benchmark of 60%

WFC:

[put the graph of WFC + score image and present ab it]

F.score: ….

JPM: [put the graph of WFC + score image and present ab it]