

Twitter Data  
(csv)

Stock Data  
(csv)

Data Cleaning and  
Analysis using  
Pandas and Python.

AAPL

AMZN

GOOG

MSFT

TSLA

Machine  
Learning  
Model

Tensor Flow  
and Sklearn

train\_test\_split  
from sklearn  
model. Train  
75% and Test  
25%

Sequential  
model with  
Relu  
activation

PostgresSQL  
Database

Tableau  
Visualization

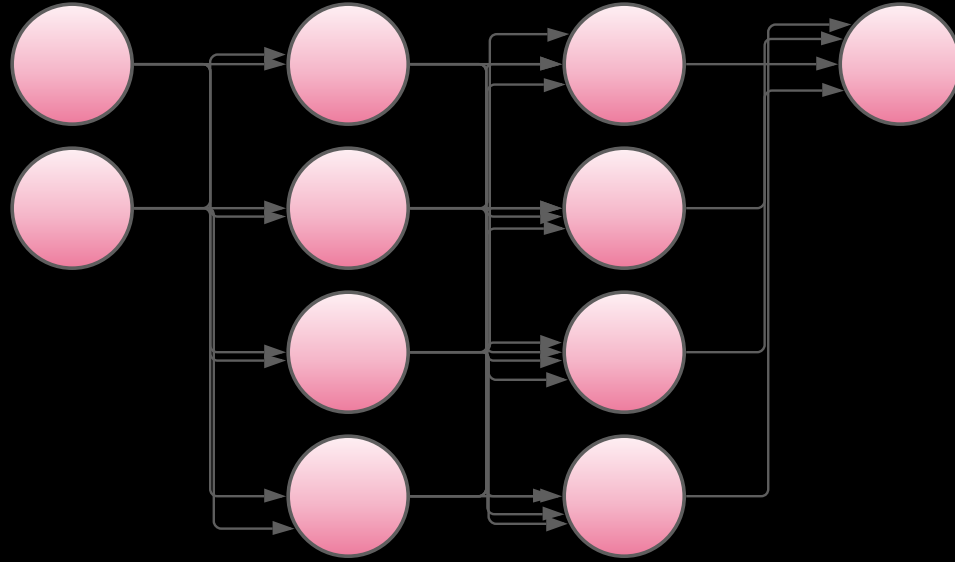
Machine Learning  
Working Draft

Input Layer

Hidden  
Layer 1

Hidden  
Layer 2

Output  
Layer



Stock\_ERD

```
1 Company
2 ---
3 ticker_symbol string PK
4 company_name string
5
6 Company_tweet
7 ---
8 tweet_id int PK
9 ticker_symbol string FK >- Company.ticker_symbol
10
11 Tweet
12 ---
13 tweet_id int FK >- Company_tweet.tweet_id
14 writer varchar
15 post_date int PK
16 body string
17 comment_num int
18 retweet_num int
19 like_num int
20
21 transform_tweet_date
22 ---
23 post_date int FK >- Tweet.post_date
24 Date int PK
25
26
27 AAPL
28 ---
29 Date int FK >- transform_tweet_date.Date
30 Low int
31 Open int
32 High int
33 Close int
34 Adjusted_close int
35
36 AMZN
37 ---
38 Date int FK >- transform_tweet_date.Date
39 Low int
40 Open int
41 High int
42 Close int
43 Adjusted_close int
44
45 GOOG
```

