

HOW AI LEARNED TO  
PREDICT STONKS

# GRINGOTTS



PREDICTING STONKS



# TABLE OF CONTENT

Problem Statement

Proposed Solution

Application Flow

Conclusion



**GRINGOTTS**

# PROBLEM STATEMENT

Do you also think the stock market as a big gambling scheme ?

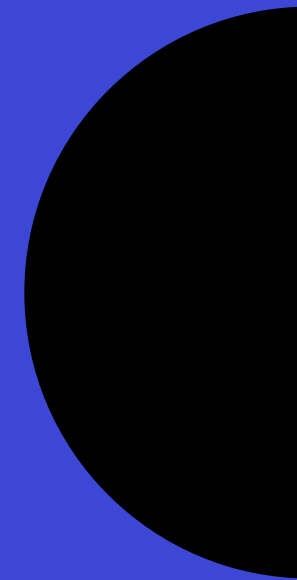
Have you ever felt a need for someone to assist you in this confusing world of financial market ?





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**Hmmm.....**



*if yes then gringotts is  
here for you*

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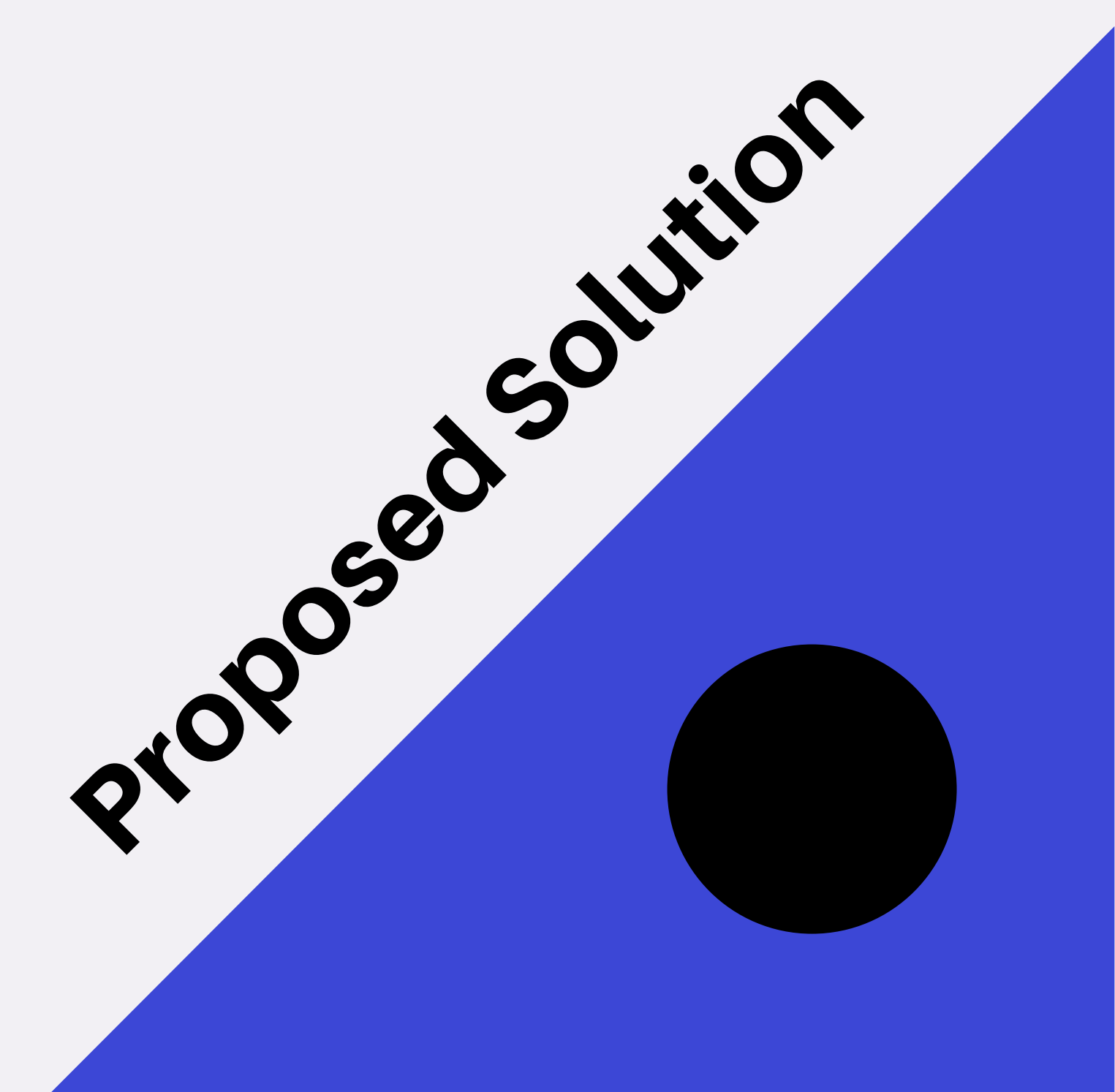


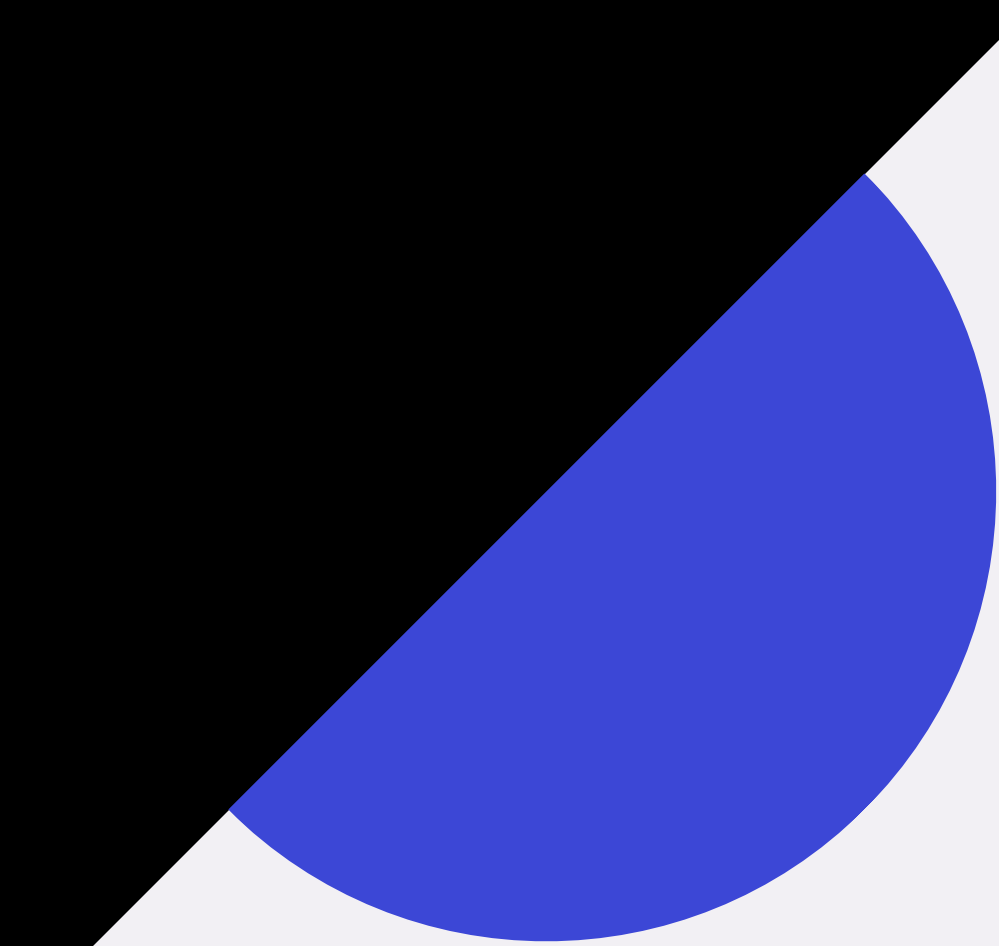
## *Data Abundance*

We will be using **Twitter** data as it is an encyclopedia of real-time data of stocks

## Recurrent Neural Network

Since RNNs use a feedback loop method, they are the best at series data prediction.



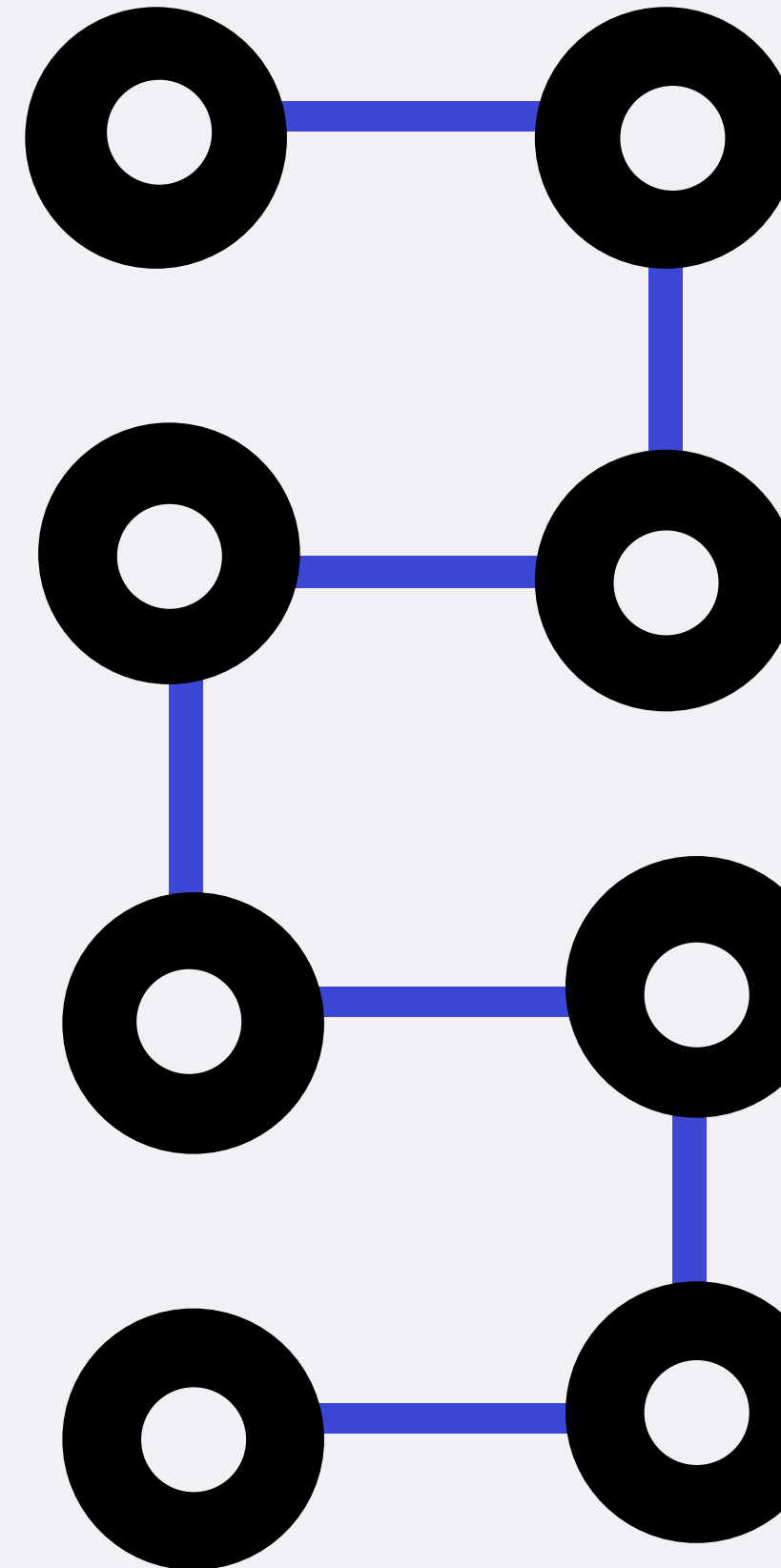


*Using Tweepy to  
extract tweets*

*Saved Model Weights  
in .H5 and Model  
architecture in JSON  
format*

*User input a hashtag then we extract  
150 tweets of it.*

*Final Output prediction of that  
Hashtag*



*A custom data set of 1500 rows with  
10 hashtags and 150 tweets per  
hashtag*

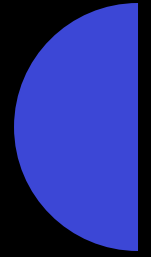
*RNN Trained on 1500 rows of  
dataset*

*We will run our model on each 150  
tweets and get an output prediction  
for each one of them*

*Then we will average out the 150  
tweets to get the final output of the  
Output*

**FLOW**





**GRINGOTTS**

**“**

**FINALLY, WE CAN AFFIRM THAT THIS  
INITIATIVE GREATLY BENEFITED OUR  
UNDERSTANDING OF NATURAL  
LANGUAGE PROCESSING AS WELL AS  
OF FINANCIAL MARKETS.**