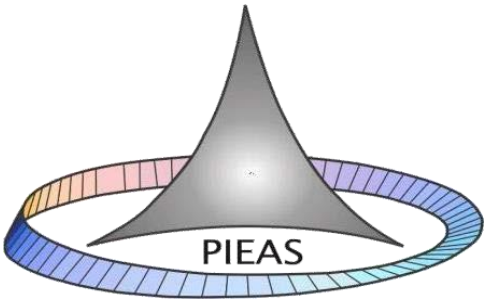
Stock Price Prediction



Submitted to:

Dr Aneela Zameer

Submitted by:

Group:

Aniq Javed

Usman Asad

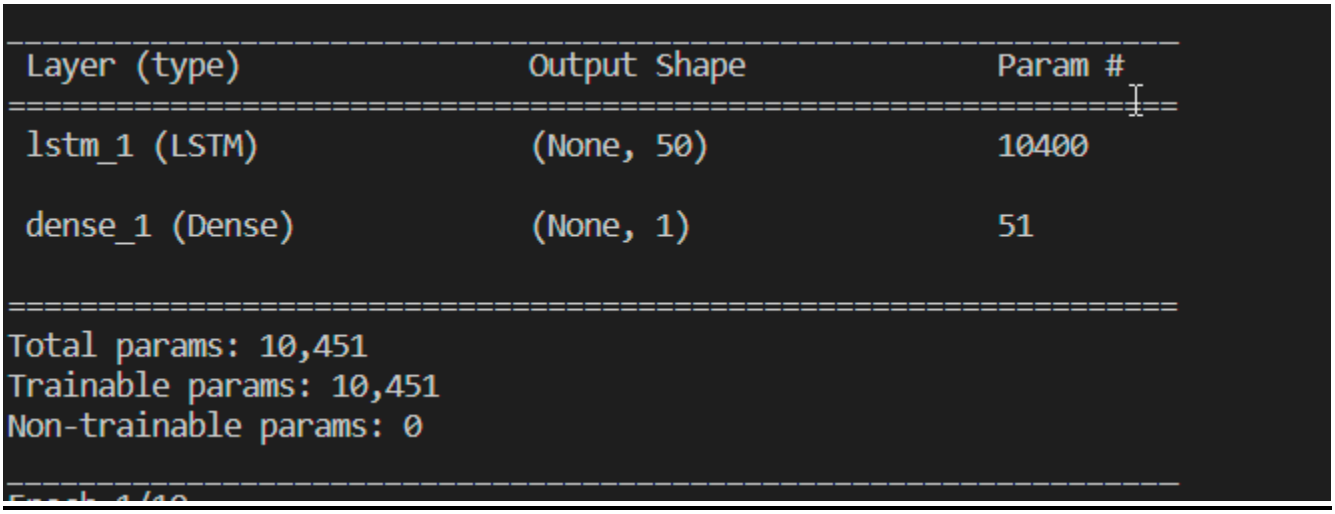
Ahmed Raza

Pakistan Institute of Engineering and Applied Sciences (PIEAS)

- **Implementation of Single LSTM layer Model:**

Model:

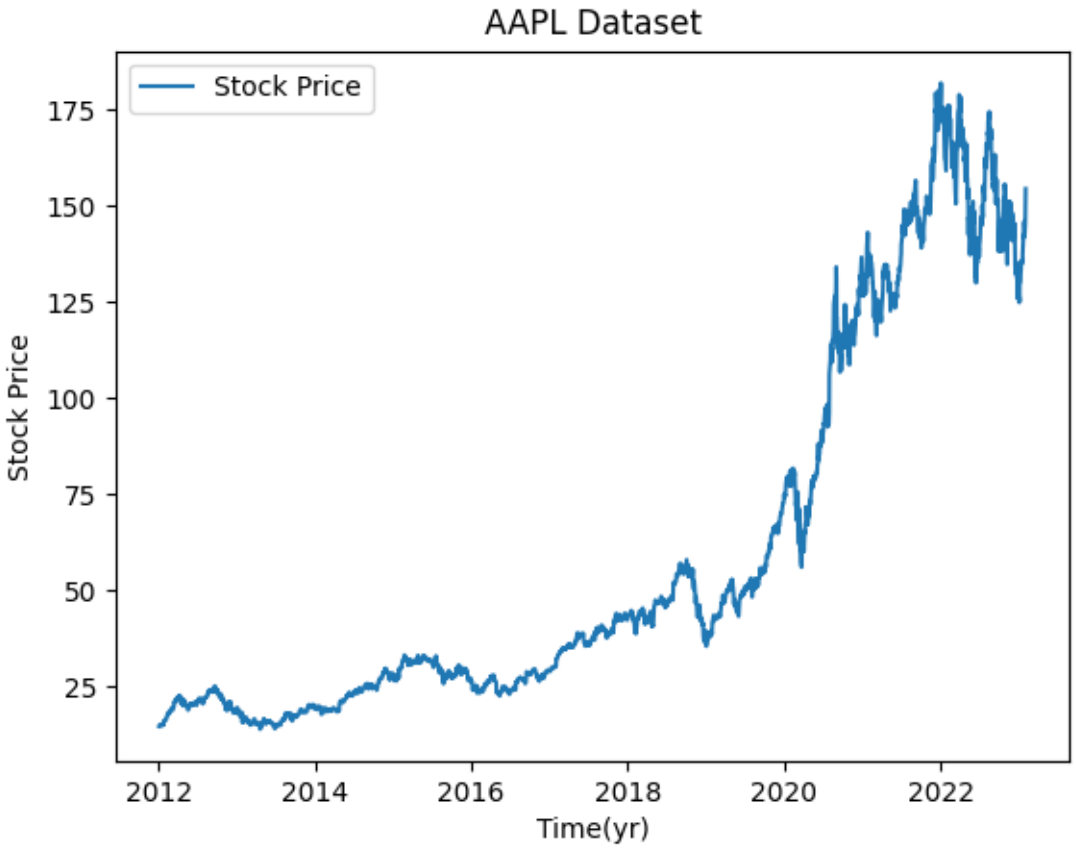
We have trained and tested our model on four stocks that are Apple, Google, Microsoft, Amazon. We have set batch size to 64 and epochs were 10 and window size of 100.



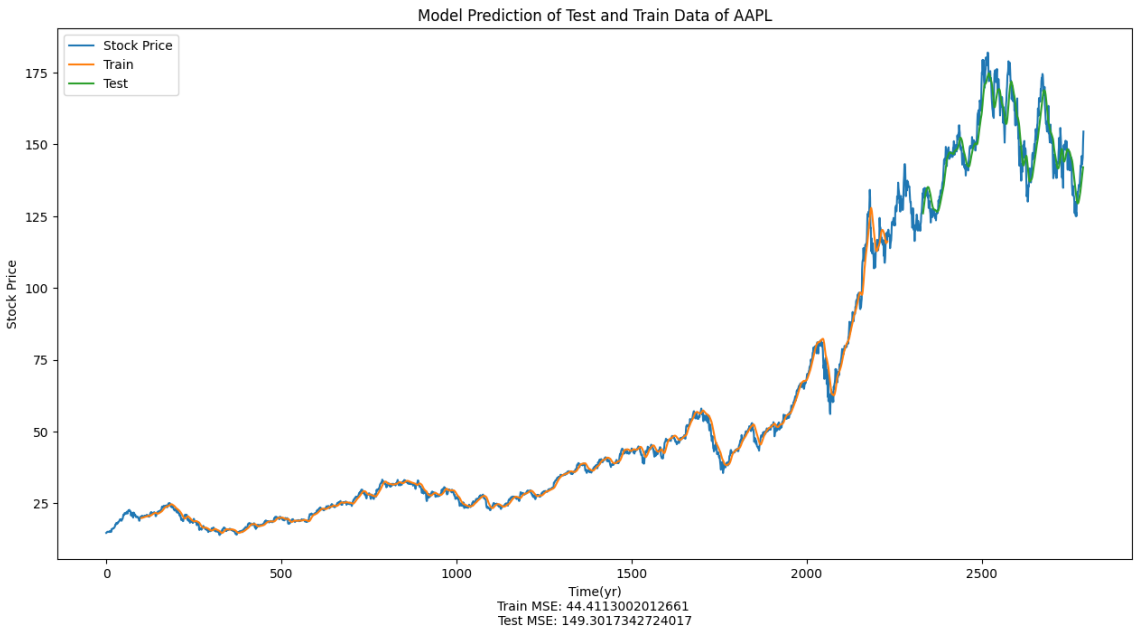
```
_________________________________________________________________
 Layer (type)                 Output Shape              Param #
=================================================================
 lstm_1 (LSTM)                (None, 50)                10400

 dense_1 (Dense)              (None, 1)                 51

=================================================================
Total params: 10,451
Trainable params: 10,451
Non-trainable params: 0

_________________________________________________________________
```

AAPL:

1. Dataset

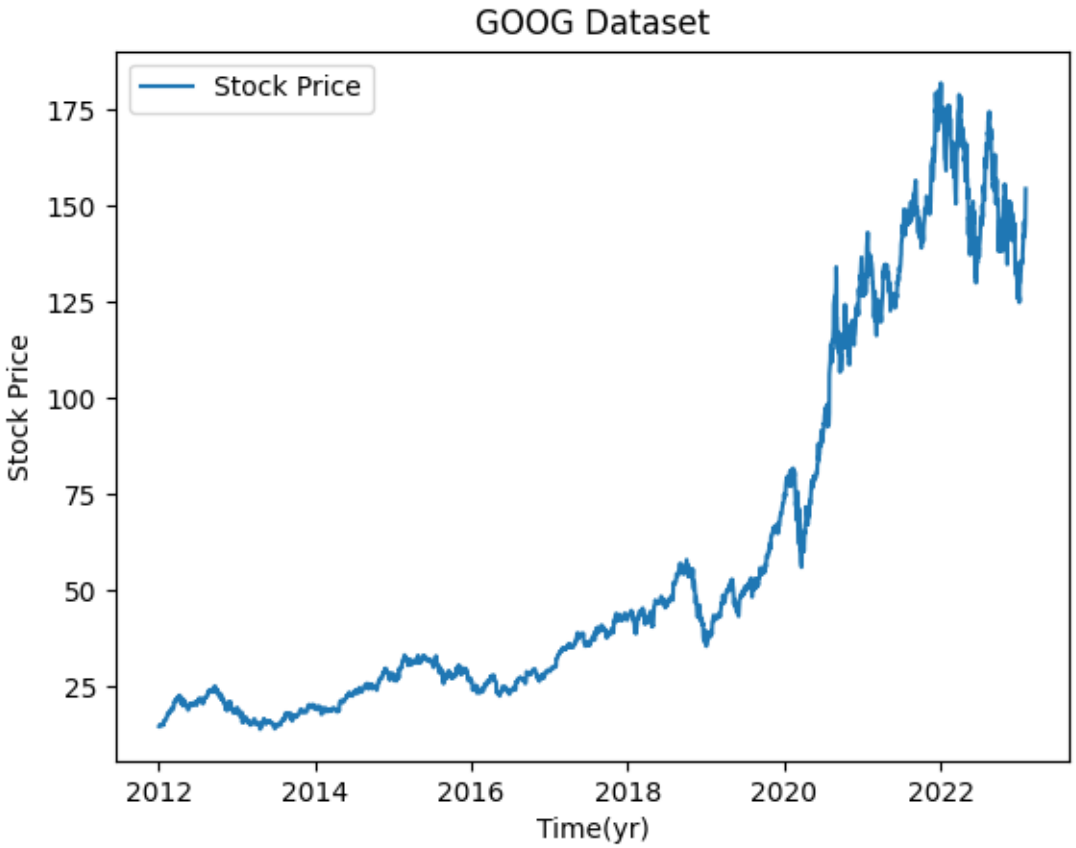


2. Train, test and prediction

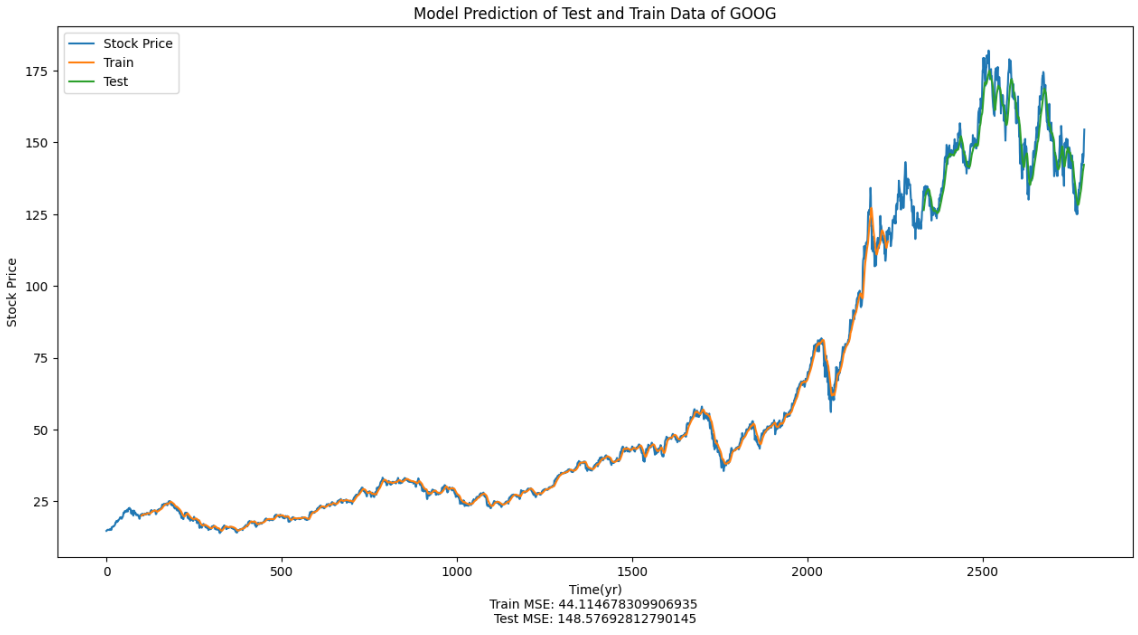


GOOG:

1. Dataset

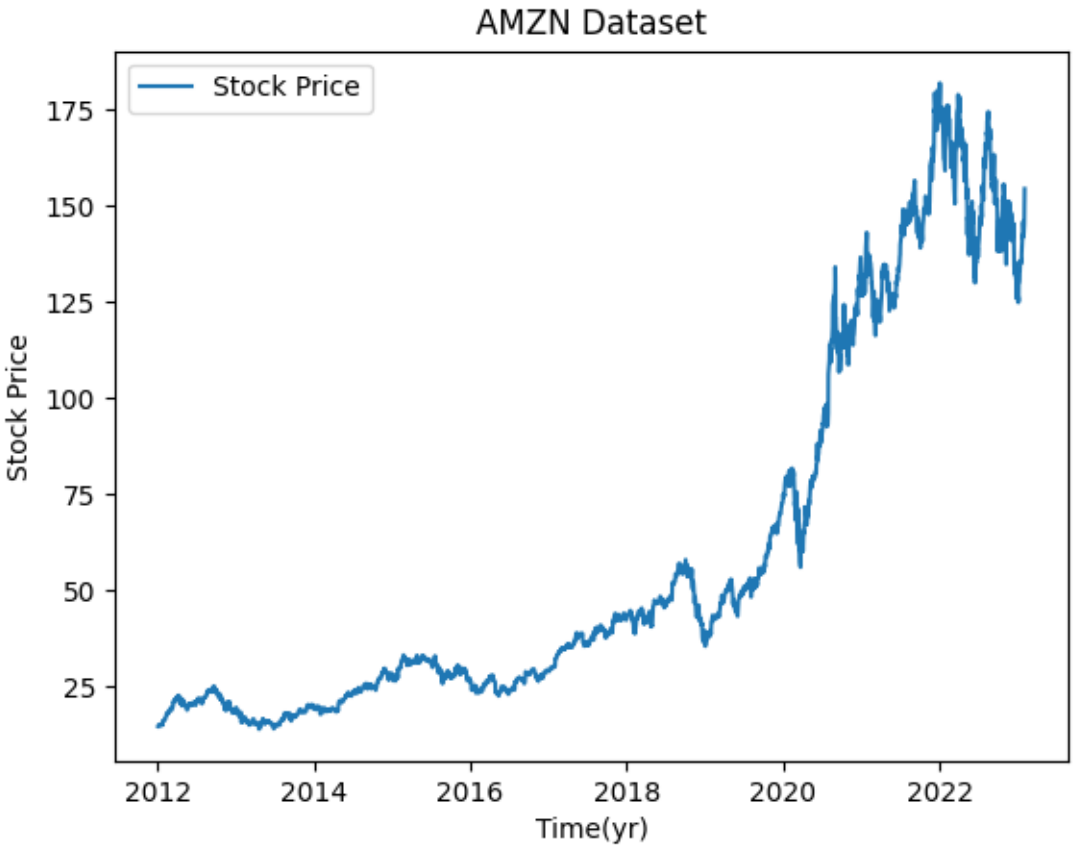


2. Train, test and predicition

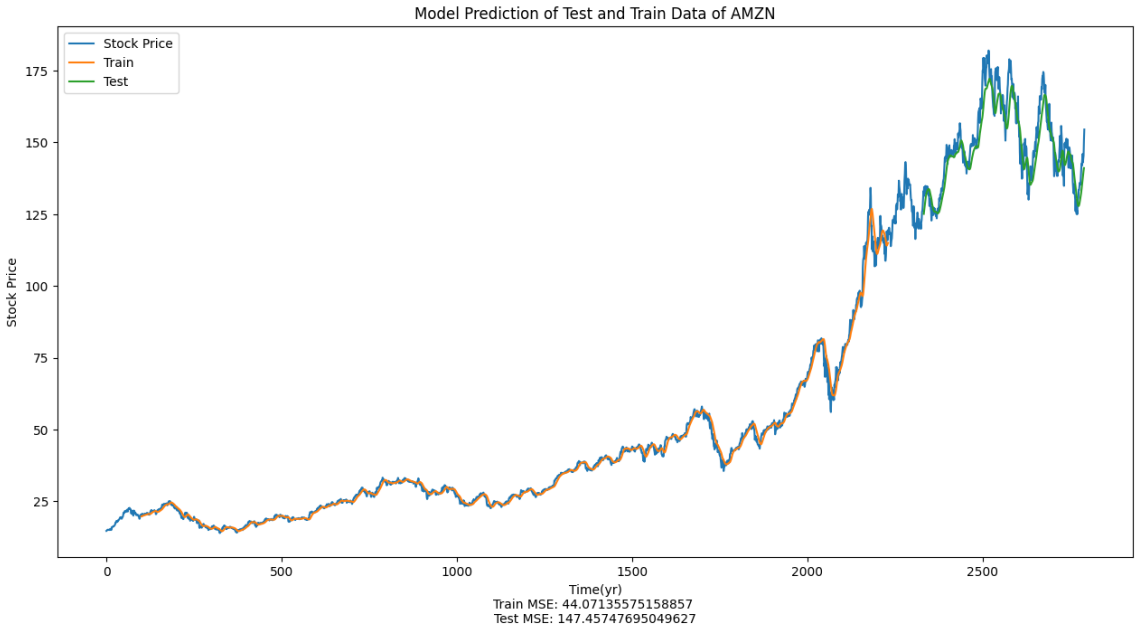


AMZN:

1. Dataset

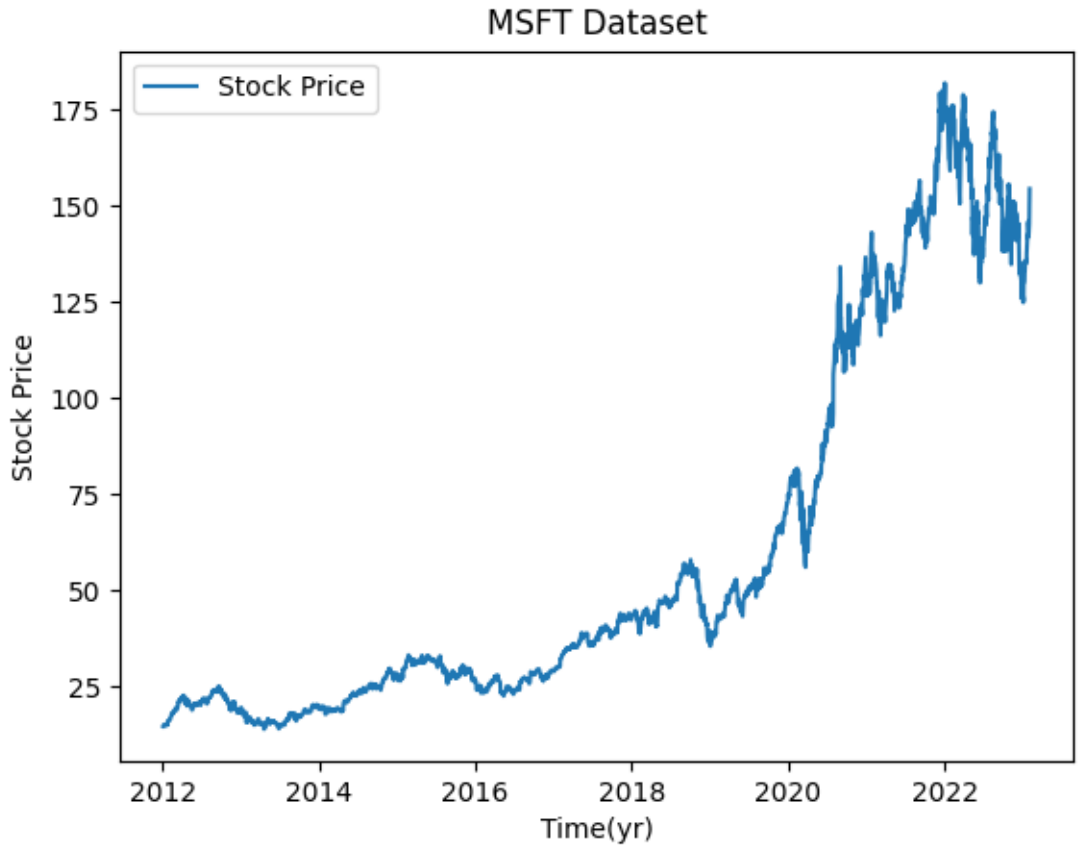


2. Train, test and prediction

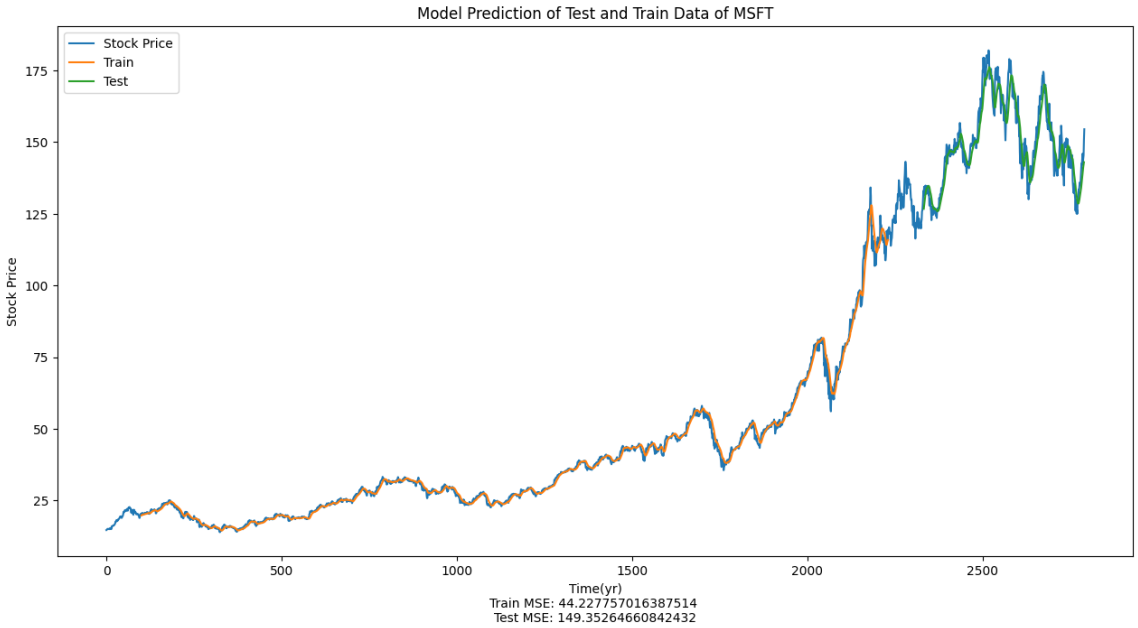


MSFT:

1. Dataset



2. Train, test and predicition



- **Implementation of Stacked LSTM Model:**

Model:

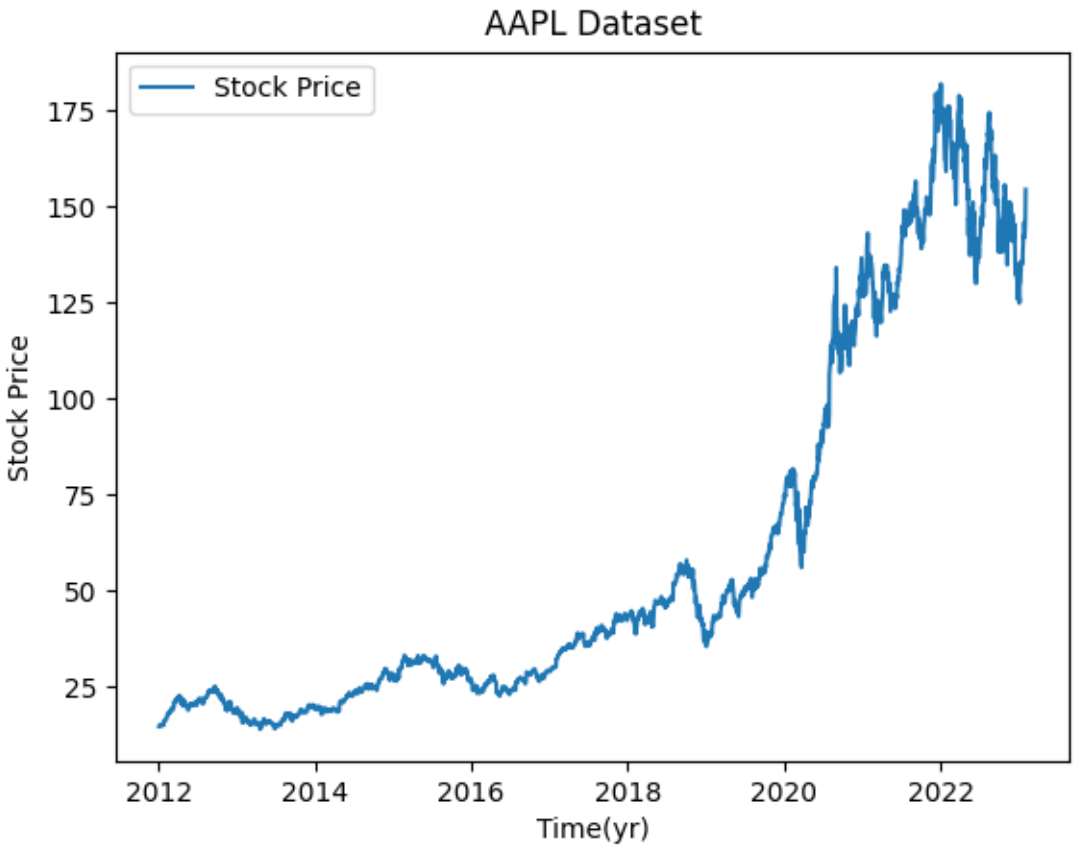
We have trained and tested our model on four stocks that are Apple, Google, Microsoft, Amazon. We have set batch size to 64 and epochs were 10 and window size of 100.

Layer (type)	Output Shape	Param #
lstm_3 (LSTM)	(None, 100, 50)	10400
lstm_4 (LSTM)	(None, 100, 50)	20200
lstm_5 (LSTM)	(None, 50)	20200
dense_1 (Dense)	(None, 1)	51

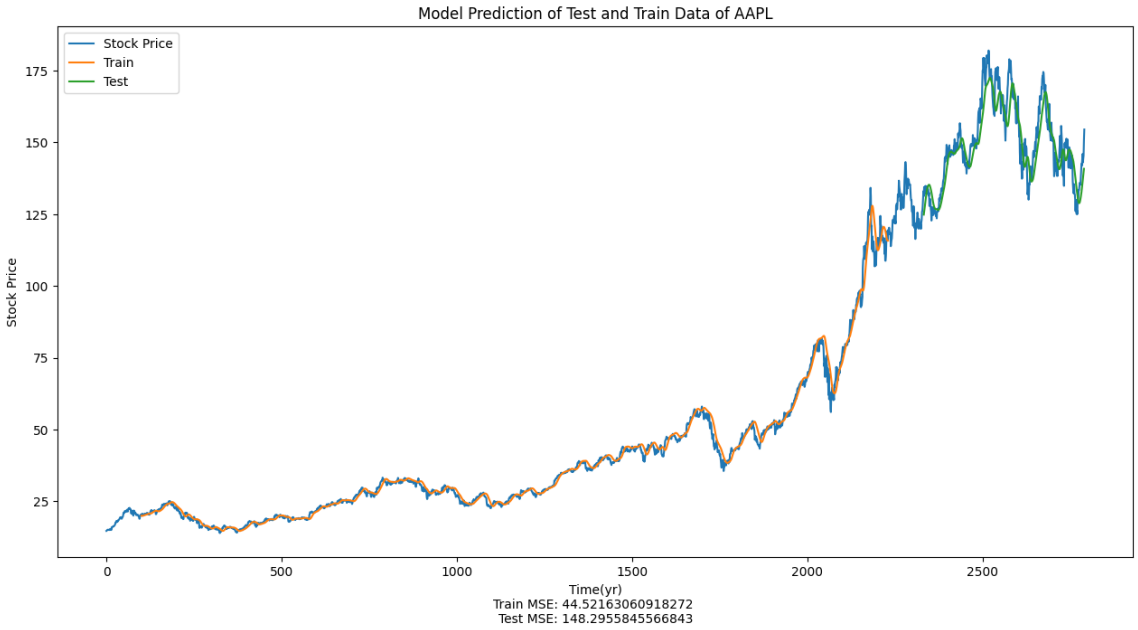
Total params: 50,851
Trainable params: 50,851
Non-trainable params: 0

AAPL:

3. Dataset

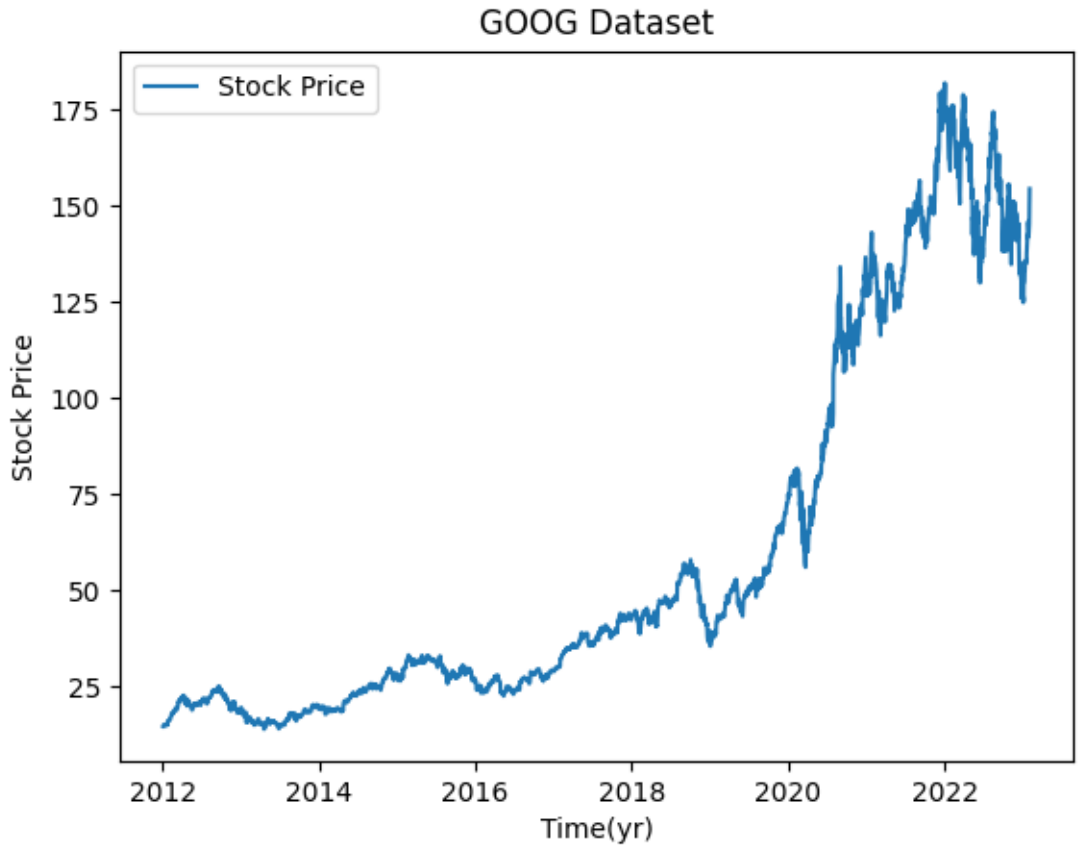


4. Train, test and prediction

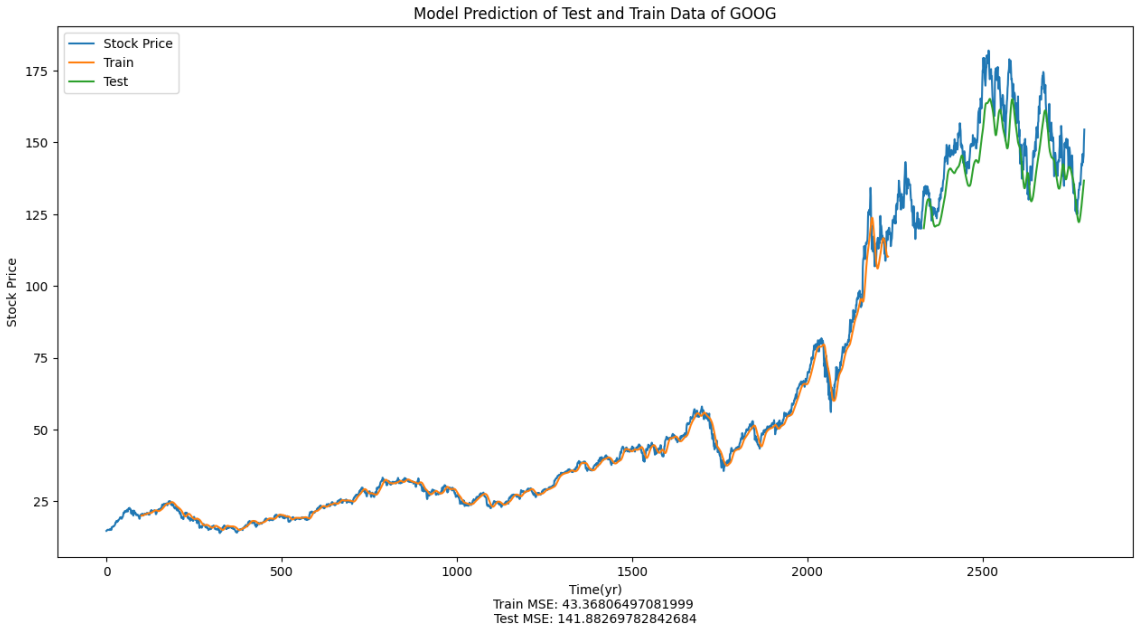


GOOG:

3. Dataset

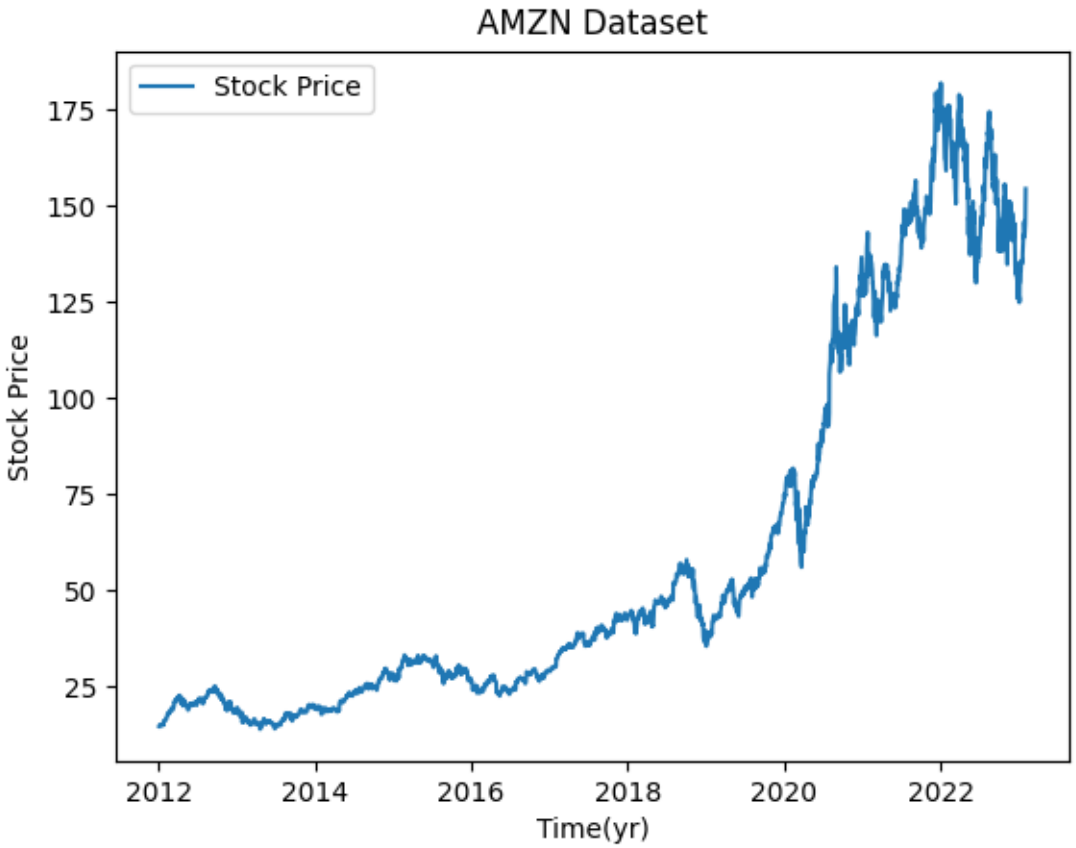


4. Train, test and predicition

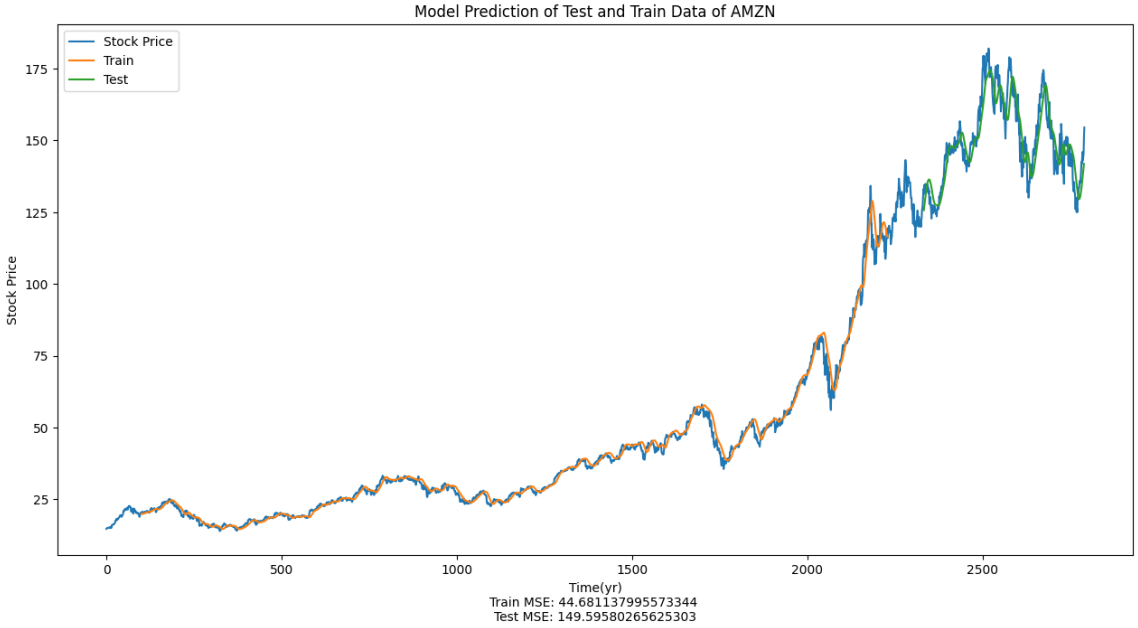


AMZN:

3. Dataset

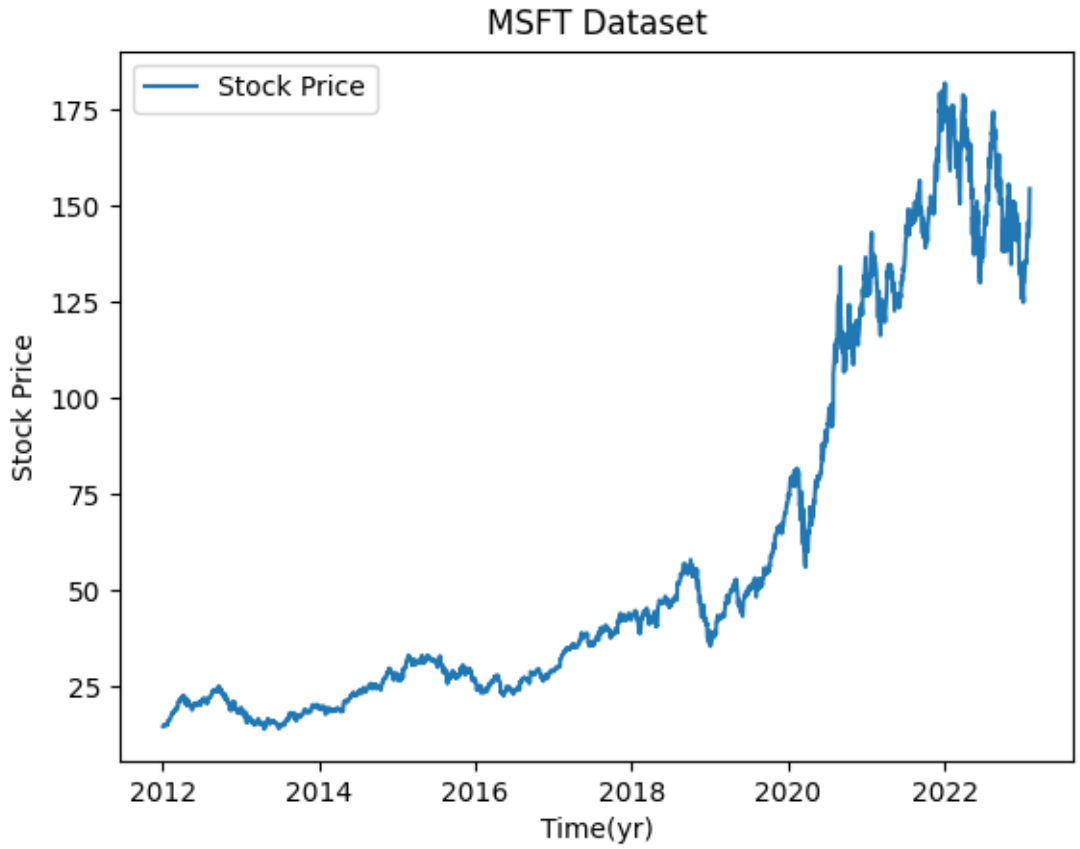
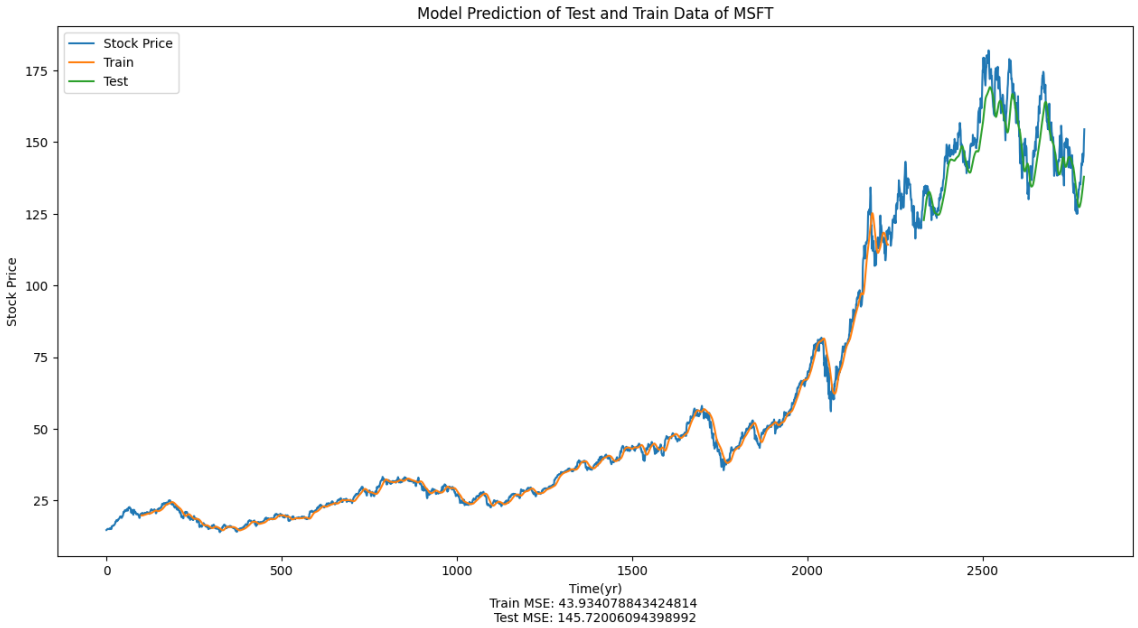


4. Train, test and predicion



MSFT:

3. Dataset



4. Train, test and predicition