# Import Libraries

import os

import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

%matplotlib inline

# Loading training dataset

dataset\_train = pd.read\_csv("trainset.csv")

dataset\_train.head()

training\_set = dataset\_train.iloc[:, 1:2].values

print(training\_set)

print(training\_set.shape)

# normalizing the dataset

from sklearn.preprocessing import MinMaxScaler

scaler = MinMaxScaler(feature\_range = (0, 1))

scaled\_training\_set = scaler.fit\_transform(training\_set)

scaled\_training\_set

X\_train = []

Y\_train = []

for i in range(60, 1259):

    X\_train.append(scaled\_training\_set[i-60:i, 0])

    Y\_train.append(scaled\_training\_set[i, 0])

X\_train = np.array(X\_train)

Y\_train = np.array(Y\_train)

print(X\_train.shape)

print(Y\_train.shape)

# reshape the data

X\_train = np.reshape(X\_train, (X\_train.shape[0], X\_train.shape[1], 1))

X\_train.shape

from keras.models import Sequential

from keras.layers import LSTM

from keras.layers import Dense

from keras.layers import Dropout

regressor = Sequential()

regressor.add(LSTM(units = 50, return\_sequences= True, input\_shape = (X\_train.shape[1], 1)))

regressor.add(Dropout(0.2))

regressor.add(LSTM(units = 50, return\_sequences = True))

regressor.add(Dropout(0.2))

regressor.add(LSTM(units=50, return\_sequences=True))

regressor.add(Dropout(0.2))

regressor.add(LSTM(units = 50))

regressor.add(Dropout(0.2))

regressor.add(Dense(units = 1))

# fitting the model

regressor.compile(optimizer = 'adam', loss = 'mean\_squared\_error')

regressor.fit(X\_train, Y\_train, epochs = 100, batch\_size = 32)

dataset\_test = pd.read\_csv("testset.csv")

actual\_stock\_price = dataset\_test.iloc[:, 1:2].values

# preparing input for the model

dataset\_total = pd.concat((dataset\_train['Open'], dataset\_test['Open']), axis = 0)

inputs = dataset\_total[len(dataset\_total) - len(dataset\_test) - 60:].values

inputs = inputs.reshape(-1, 1)

inputs = scaler.transform(inputs)

X\_test = []

for i in range(60, 180):

    X\_test.append(inputs[i - 60:i, 0])

X\_test = np.array(X\_test)

X\_test = np.reshape(X\_test, (X\_test.shape[0], X\_test.shape[1], 1))

predicted\_stock\_price = regressor.predict(X\_test)

predicted\_stock\_price = scaler.inverse\_transform(predicted\_stock\_price)

# plotting graphs

plt.plot(actual\_stock\_price, color = 'red', label = 'Actual Google Stock Price')

plt.plot(predicted\_stock\_price, color = 'blue', label = 'Predicted google Stock Price')

plt.title('google Stock Price Prediction')

plt.xlabel('Time')

plt.ylabel('Google Stock Price')

plt.legend()

\*\*\*\*\*------------------------------------------------------------------------------

Testset dat

Date,Open,High,Low,Close,Adj Close,Volume

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Trainset data

Date,Open,High,Low,Close,Volume

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