```
In [159...
        import numpy as np
        import matplotlib.pyplot as plt
        import pandas as pd
        import pandas datareader as dr
        import datetime as dt
        from sklearn.preprocessing import MinMaxScaler
        from tensorflow.keras.models import Sequential
        from tensorflow.keras.layers import Dense, Dropout, LSTM
In [160...
        dataset train = pd.read csv('D:\MeezanBankTrain.csv')
        training set = dataset train.iloc[:, 4:5].values
In [161...
        stock price train = dataset train.iloc[:-120, 4:5].values
In [162...
        sc = MinMaxScaler(feature range = (0, 1))
        training set scaled = sc.fit transform(training set).reshape(-1,1)
In [163...
       X train = []
        y train = []
        for i in range(120, len(training set scaled)):
            X train.append(training set scaled[i-120:i, 0])
            y train.append(training set scaled[i, 0])
        X train, y train = np.array(X train), np.array(y train)
In [164...
        X train = np.reshape(X train, (X train.shape[0], X train.shape[1], 1))
In [165...
        regressor = Sequential()
        regressor.add(LSTM(units = 50, return sequences = True, input shape = (X train.shape[1], 3
        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))
        regressor.compile(optimizer = 'adam', loss = 'mean squared error')
        regressor.fit(X train, y train, epochs = 100, batch size = 32, verbose='auto')
       Epoch 1/100
       Epoch 2/100
       Epoch 3/100
       31/31 [=============== ] - 6s 209ms/step - loss: 0.0046
       Epoch 4/100
       31/31 [============= ] - 6s 205ms/step - loss: 0.0036
       Epoch 5/100
       31/31 [============= ] - 6s 208ms/step - loss: 0.0040
       Epoch 6/100
       31/31 [=============== ] - 6s 207ms/step - loss: 0.0033
       31/31 [============= ] - 6s 206ms/step - loss: 0.0032
       Epoch 8/100
```

```
Epoch 9/100
Epoch 10/100
31/31 [=============== ] - 6s 206ms/step - loss: 0.0028
Epoch 11/100
31/31 [============= ] - 6s 206ms/step - loss: 0.0030
Epoch 12/100
31/31 [============ ] - 7s 224ms/step - loss: 0.0028
Epoch 13/100
31/31 [============ ] - 6s 207ms/step - loss: 0.0027
Epoch 14/100
Epoch 15/100
Epoch 16/100
31/31 [============= ] - 6s 205ms/step - loss: 0.0025
Epoch 17/100
Epoch 18/100
Epoch 19/100
31/31 [============= ] - 6s 210ms/step - loss: 0.0023
Epoch 20/100
Epoch 21/100
31/31 [============= ] - 6s 205ms/step - loss: 0.0021
Epoch 22/100
31/31 [============= ] - 6s 206ms/step - loss: 0.0025
Epoch 23/100
31/31 [============ ] - 6s 205ms/step - loss: 0.0019
Epoch 24/100
31/31 [============= ] - 6s 206ms/step - loss: 0.0022
Epoch 25/100
Epoch 26/100
Epoch 27/100
31/31 [============= ] - 6s 206ms/step - loss: 0.0019
Epoch 28/100
Epoch 29/100
Epoch 30/100
31/31 [============= ] - 6s 205ms/step - loss: 0.0020
Epoch 31/100
31/31 [=========== - - 6s 206ms/step - loss: 0.0017
Epoch 32/100
31/31 [============== ] - 6s 209ms/step - loss: 0.0017
Epoch 33/100
31/31 [============= ] - 7s 214ms/step - loss: 0.0018
Epoch 34/100
31/31 [============= ] - 6s 204ms/step - loss: 0.0019
Epoch 35/100
31/31 [============= ] - 6s 205ms/step - loss: 0.0016
Epoch 36/100
31/31 [=============== ] - 6s 206ms/step - loss: 0.0015
Epoch 37/100
Epoch 38/100
31/31 [============= ] - 7s 219ms/step - loss: 0.0015
Epoch 39/100
Epoch 40/100
Epoch 41/100
```

```
31/31 [================== ] - 6s 208ms/step - loss: 0.0015
Epoch 42/100
Epoch 43/100
Epoch 44/100
31/31 [============= ] - 6s 208ms/step - loss: 0.0013
Epoch 45/100
31/31 [============ ] - 7s 229ms/step - loss: 0.0014
Epoch 46/100
Epoch 47/100
31/31 [=============== ] - 6s 207ms/step - loss: 0.0012
Epoch 48/100
Epoch 49/100
31/31 [============ ] - 7s 211ms/step - loss: 0.0014
Epoch 50/100
Epoch 51/100
Epoch 52/100
31/31 [============ ] - 7s 214ms/step - loss: 0.0012
Epoch 53/100
31/31 [=========== - - 6s 206ms/step - loss: 0.0013
Epoch 54/100
31/31 [============= ] - 6s 207ms/step - loss: 0.0013
Epoch 55/100
31/31 [============= ] - 6s 206ms/step - loss: 0.0013
Epoch 56/100
31/31 [============ ] - 7s 219ms/step - loss: 0.0012
Epoch 57/100
31/31 [============= ] - 8s 249ms/step - loss: 0.0012
Epoch 58/100
31/31 [============== ] - 8s 246ms/step - loss: 0.0013
Epoch 59/100
Epoch 60/100
31/31 [============= ] - 6s 207ms/step - loss: 0.0012
Epoch 61/100
Epoch 62/100
Epoch 63/100
31/31 [============= ] - 6s 207ms/step - loss: 0.0011
Epoch 64/100
Epoch 65/100
31/31 [============== ] - 7s 210ms/step - loss: 0.0013
Epoch 66/100
31/31 [============= ] - 6s 205ms/step - loss: 0.0012
Epoch 67/100
31/31 [============= ] - 6s 206ms/step - loss: 0.0010
Epoch 68/100
31/31 [============ ] - 6s 207ms/step - loss: 0.0010
Epoch 69/100
Epoch 70/100
Epoch 71/100
31/31 [============== ] - 6s 205ms/step - loss: 9.4222e-04
Epoch 72/100
Epoch 73/100
Epoch 74/100
```

```
Epoch 75/100
   31/31 [============= - 7s 212ms/step - loss: 0.0010
   Epoch 76/100
   Epoch 77/100
   31/31 [============= ] - 6s 207ms/step - loss: 9.4342e-04
   Epoch 78/100
   31/31 [============== ] - 7s 210ms/step - loss: 0.0010
   Epoch 79/100
   31/31 [============= ] - 7s 214ms/step - loss: 0.0011
   Epoch 80/100
   Epoch 81/100
   Epoch 82/100
   31/31 [============= ] - 7s 210ms/step - loss: 8.0324e-04
   Epoch 83/100
   Epoch 84/100
   Epoch 85/100
   Epoch 86/100
   Epoch 87/100
   Epoch 88/100
   31/31 [============= ] - 6s 208ms/step - loss: 8.4971e-04
   Epoch 89/100
   31/31 [============= ] - 6s 209ms/step - loss: 8.1239e-04
   Epoch 90/100
   Epoch 91/100
   Epoch 92/100
   Epoch 93/100
   Epoch 94/100
   Epoch 95/100
   Epoch 96/100
   31/31 [============= ] - 7s 210ms/step - loss: 8.1358e-04
   Epoch 97/100
   Epoch 98/100
   Epoch 99/100
   31/31 [============== ] - 7s 212ms/step - loss: 8.0726e-04
   Epoch 100/100
   31/31 [============= ] - 7s 211ms/step - loss: 7.7565e-04
   <keras.callbacks.History at 0x1b6b3b3a160>
Out[165...
In [166...
    #history = regressor.fit(X train, y train, validation split=0.33, epochs=150, batch size=
In [167...
    # list all data in history
    print(history.history.keys())
   dict keys(['loss', 'val loss'])
```

In [168...

```
# plt.plot(history.history['accuracy'])
          # plt.plot(history.history['val accuracy'])
          # plt.title('model accuracy')
          # plt.ylabel('accuracy')
          # plt.xlabel('epoch')
          # plt.legend(['train', 'test'], loc='upper left')
          # plt.show()
In [169...
          # summarize history for loss
          plt.figure(figsize=(20, 6),dpi=80)
          plt.plot(history.history['loss'])
          plt.plot(history.history['val loss'])
          plt.title('Model loss')
          plt.ylabel('Loss')
          plt.xlabel('Epoch')
          plt.legend(['Train', 'Test'],loc='upper right')
          plt.grid()
          plt.show()
                                                          Model loss
          0.0035
          0.0030
          0.0025
         y 0.0020
          0.0015
          0.0010
          0.0005
                                                                          100
                                                                                                 140
                                                           Epoch
In [170...
          dataset test = pd.read csv('D:/MeezanBankTest.csv')
In [171...
          dataset test.replace(' ','',inplace=True)
          dataset test = dataset test.dropna()
In [216...
          data2 = dataset test.iloc[:, 4:5].values
          total test = pd.concat((dataset train['Close'], dataset test['Close']), axis=0)
                 67.98
Out[216...
                 67.24
         2
                 69.00
         3
                 65.89
                 66.66
         4
                 . . .
         15
                133.71
               134.32
         16
         17
                133.15
         18
                130.19
         19
                133.89
         Name: Close, Length: 1131, dtype: float64
In [173...
          inputs = total test[len(total test) - len(dataset test) - 120:].values
          inputs = inputs.reshape(-1,1)
```

# import matplotlib as plt

# # summarize history for accuracy

```
In [174...
         X \text{ test} = []
          for i in range(120, len(inputs)):
              X test.append(inputs[i-120: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 = sc.inverse transform(predicted stock price)
In [175...
          predicted stock price train = regressor.predict(X train)
          predicted stock price train = sc.inverse transform(predicted stock price train)
          predicted stock price train.shape
         (991, 1)
Out[175...
In [176...
          import matplotlib.pyplot as plt
          plt.figure(figsize=(20, 6),dpi=80)
          plt.plot(dataset test['Close'], color = 'red', label = 'Real 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()
          plt.grid()
          plt.show()
                                                   Google Stock Price Prediction
                                                                                           Real Google Stock Price
                                                                                            Predicted Google Stock Price
          150
          145
          135
          130
                                                                                              17.5
In [177...
          from sklearn.metrics import mean squared error, mean absolute error, r2 score
          testScore =(mean squared error(dataset test['Close'], predicted stock price))
          print('Test Score: %.2f RMSE' % (testScore))
          print('Test Score: %.2f MAE' % mean absolute error(dataset test['Close'], predicted stock
          print('Test Score: %.2f R2' % r2 score(dataset test['Close'],predicted stock price))
         Test Score: 36.55 RMSE
         Test Score: 4.20 MAE
         Test Score: 0.54 R2
In [178...
          print(mean squared error(stock price train, predicted stock price train))
          print(r2 score(stock price train, predicted stock price train))
         298.18329660692814
         -0.9219621300204883
```

inputs = sc.transform(inputs)

In [179...

```
real data = [inputs[len(inputs) - 120:len(inputs + 1), 0]]
      real data = np.array(real data)
      real data = np.reshape(real data , (real data.shape[0], real data.shape[1], 1))
In [180...
      prediction = regressor.predict(real data)
      prediction = sc.inverse transform(prediction)
      print(f"Prediction : {prediction}")
      Prediction : [[132.66466]]
In [181...
      regressor 30 = Sequential()
      regressor 30.add(LSTM(units = 50, return sequences = True, input shape = (X train.shape[1]
      regressor 30.add(Dropout(0.2))
      regressor 30.add(LSTM(units = 50, return sequences = True))
      regressor 30.add(Dropout(0.2))
      regressor 30.add(LSTM(units = 50, return sequences = True))
      regressor 30.add(Dropout(0.2))
      regressor 30.add(LSTM(units = 50))
      regressor 30.add(Dropout(0.2))
      regressor 30.add(Dense(units = 30))
      regressor 30.compile(optimizer = 'adam', loss = 'mean squared error')
      regressor 30.fit(X train, y train, epochs = 100, batch size = 32, verbose='auto')
      Epoch 1/100
      Epoch 2/100
      31/31 [============== ] - 7s 210ms/step - loss: 0.0116
      Epoch 3/100
      31/31 [============ ] - 7s 214ms/step - loss: 0.0079
      Epoch 4/100
      Epoch 5/100
      Epoch 6/100
      31/31 [============== ] - 6s 208ms/step - loss: 0.0052
      Epoch 7/100
      Epoch 8/100
      31/31 [============= ] - 7s 216ms/step - loss: 0.0044
      Epoch 9/100
      31/31 [============== ] - 7s 212ms/step - loss: 0.0044
      Epoch 10/100
      31/31 [=============== ] - 6s 207ms/step - loss: 0.0039
      Epoch 11/100
      31/31 [============ ] - 6s 208ms/step - loss: 0.0037
      Epoch 12/100
      31/31 [============== ] - 7s 209ms/step - loss: 0.0036
      Epoch 13/100
      31/31 [============= ] - 6s 206ms/step - loss: 0.0035
      Epoch 14/100
      31/31 [============= ] - 6s 208ms/step - loss: 0.0030
      Epoch 15/100
      Epoch 16/100
      Epoch 17/100
      31/31 [=============== ] - 6s 206ms/step - loss: 0.0030
      Epoch 18/100
      Epoch 19/100
      31/31 [============= ] - 6s 206ms/step - loss: 0.0026
      Epoch 20/100
```

```
Epoch 21/100
31/31 [=============== ] - 6s 207ms/step - loss: 0.0024
Epoch 22/100
Epoch 23/100
31/31 [============= ] - 6s 207ms/step - loss: 0.0024
Epoch 24/100
Epoch 25/100
Epoch 26/100
31/31 [============= ] - 6s 208ms/step - loss: 0.0021
Epoch 27/100
Epoch 28/100
31/31 [============ ] - 6s 207ms/step - loss: 0.0020
Epoch 29/100
31/31 [============ ] - 6s 207ms/step - loss: 0.0020
Epoch 30/100
Epoch 31/100
31/31 [============= ] - 7s 218ms/step - loss: 0.0019
Epoch 32/100
31/31 [============= ] - 6s 208ms/step - loss: 0.0018
Epoch 33/100
Epoch 34/100
31/31 [============= ] - 6s 209ms/step - loss: 0.0018
Epoch 35/100
Epoch 36/100
Epoch 37/100
31/31 [============= ] - 6s 207ms/step - loss: 0.0018
Epoch 38/100
Epoch 39/100
31/31 [============= ] - 7s 216ms/step - loss: 0.0017
Epoch 40/100
31/31 [============ ] - 7s 223ms/step - loss: 0.0016
Epoch 41/100
31/31 [============= ] - 7s 228ms/step - loss: 0.0016
Epoch 42/100
31/31 [============= ] - 7s 240ms/step - loss: 0.0015
Epoch 43/100
31/31 [=============== ] - 6s 208ms/step - loss: 0.0016
Epoch 44/100
Epoch 45/100
31/31 [============== ] - 7s 216ms/step - loss: 0.0016
Epoch 46/100
Epoch 47/100
Epoch 48/100
31/31 [============= ] - 7s 210ms/step - loss: 0.0013
Epoch 49/100
Epoch 50/100
Epoch 51/100
31/31 [============ ] - 7s 237ms/step - loss: 0.0012
Epoch 52/100
31/31 [=============== ] - 8s 246ms/step - loss: 0.0012
Epoch 53/100
31/31 [============ - 7s 225ms/step - loss: 0.0013
```

```
Epoch 54/100
31/31 [=============== ] - 7s 222ms/step - loss: 0.0013
Epoch 55/100
31/31 [============== - - 8s 246ms/step - loss: 0.0013
Epoch 56/100
31/31 [============= ] - 7s 241ms/step - loss: 0.0013
Epoch 57/100
Epoch 58/100
Epoch 59/100
31/31 [============ ] - 7s 236ms/step - loss: 0.0012
Epoch 60/100
31/31 [=========== - - 6s 208ms/step - loss: 0.0011
Epoch 61/100
31/31 [============= ] - 7s 211ms/step - loss: 0.0012
Epoch 62/100
31/31 [============= ] - 7s 214ms/step - loss: 0.0011
Epoch 63/100
31/31 [============= ] - 7s 211ms/step - loss: 0.0011
Epoch 64/100
31/31 [============= ] - 7s 211ms/step - loss: 9.5366e-04
Epoch 65/100
31/31 [============ ] - 7s 222ms/step - loss: 0.0010
Epoch 66/100
Epoch 67/100
31/31 [============= ] - 8s 255ms/step - loss: 0.0010
Epoch 68/100
Epoch 69/100
Epoch 70/100
31/31 [============= ] - 9s 277ms/step - loss: 0.0010
Epoch 71/100
Epoch 72/100
31/31 [============ ] - 7s 228ms/step - loss: 0.0010
Epoch 73/100
Epoch 74/100
31/31 [============= ] - 8s 248ms/step - loss: 8.8100e-04
Epoch 75/100
31/31 [============= ] - 9s 302ms/step - loss: 9.6999e-04
Epoch 76/100
31/31 [============= ] - 8s 264ms/step - loss: 8.9304e-04
Epoch 77/100
Epoch 78/100
31/31 [============= ] - 8s 243ms/step - loss: 9.5120e-04
Epoch 79/100
Epoch 80/100
Epoch 81/100
31/31 [============= ] - 8s 249ms/step - loss: 9.3023e-04
Epoch 82/100
Epoch 83/100
Epoch 84/100
31/31 [============= ] - 9s 300ms/step - loss: 7.5422e-04
Epoch 85/100
31/31 [=========== ] - 10s 322ms/step - loss: 8.2098e-04
Epoch 86/100
```

```
Epoch 87/100
    Epoch 88/100
    Epoch 89/100
    Epoch 90/100
    Epoch 91/100
    Epoch 92/100
    31/31 [============= ] - 9s 281ms/step - loss: 7.9439e-04
    Epoch 93/100
    Epoch 94/100
    Epoch 95/100
    31/31 [============= ] - 8s 242ms/step - loss: 7.7556e-04
    Epoch 96/100
    Epoch 97/100
    Epoch 98/100
    Epoch 99/100
    Epoch 100/100
    <keras.callbacks.History at 0x1b6be3a7640>
Out[181...
In [182...
    real data 30 = [inputs[len(inputs) - 120:len(inputs + 1), 0]]
     real data 30 = np.array(real data 30)
     real data 30 = np.reshape(real data 30 , (real data 30.shape[0], real data 30.shape[1], 1)
In [183...
    prediction 30 = regressor 30.predict(real data 30)
     prediction 30 = sc.inverse transform(prediction 30)
     print(f"Prediction : {prediction 30.transpose()}")
    Prediction : [[133.78113]
     [133.98868]
     [134.53502]
     [133.7789]
     [133.9772]
     [134.30203]
     [133.48563]
     [133.799]
     [133.4248]
     [133.54262]
     [133.32985]
     [134.06601]
     [133.52753]
     [134.1859]
     [133.98808]
     [133.40321]
     [133.73857]
     [133.32864]
     [133.68948]
     [133.92258]
     [133.59235]
     [133.33023]
     [133.69797]
     [132.71397]
     [134.22215]
```

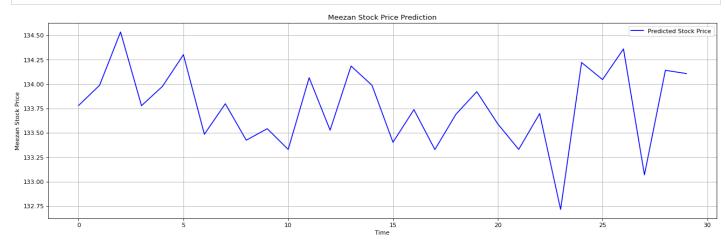
```
[134.3613 ]
[133.0693 ]
[134.14182]
[134.10864]]

DataFrame = pd.DataFrame(prediction_30)
prediction = DataFrame.T
Prediction Total = pd.concat((dataset test['Close'], prediction), axis=0, sort=True, ignore ignore
```

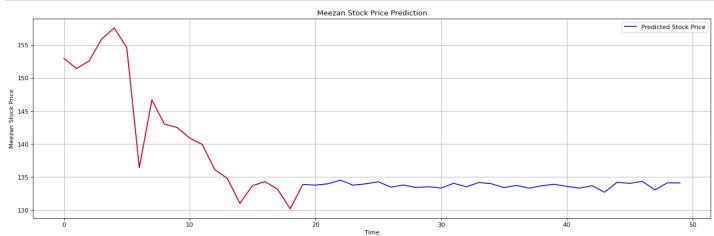
```
In [251...
    plt.figure(figsize=(20, 6),dpi=80)
    plt.plot(prediction, color = 'blue', label = 'Predicted Stock Price')
    plt.title('Meezan Stock Price Prediction')
    plt.xlabel('Time')
    plt.ylabel('Meezan Stock Price')
    plt.legend()
    plt.grid()
    plt.show()
```

[134.04697]

In [244...



```
In [250...
    plt.figure(figsize=(20, 6),dpi=80)
    plt.plot(Prediction_Total, color = 'blue', label = 'Predicted Stock Price')
    plt.plot(dataset_test['Close'], color = 'red')
    plt.title('Meezan Stock Price Prediction')
    plt.xlabel('Time')
    plt.ylabel('Meezan Stock Price')
    plt.legend()
    plt.grid()
    plt.show()
```



```
In [186... regressor_30.summary()
```

Layer (type)	Output Shape	Param #
lstm_20 (LSTM)	(None, 120, 50)	10400
dropout_20 (Dropout)	(None, 120, 50)	0
lstm_21 (LSTM)	(None, 120, 50)	20200
dropout_21 (Dropout)	(None, 120, 50)	0
lstm_22 (LSTM)	(None, 120, 50)	20200
dropout_22 (Dropout)	(None, 120, 50)	0
lstm_23 (LSTM)	(None, 50)	20200
dropout_23 (Dropout)	(None, 50)	0
dense_5 (Dense)	(None, 30)	1530

Total params: 72,530 Trainable params: 72,530 Non-trainable params: 0

\_\_\_\_\_

```
import cufflinks as cf
import plotly.graph_objects as go
from plotly.offline import iplot, init_notebook_mode
import matplotlib.pyplot as plt
```

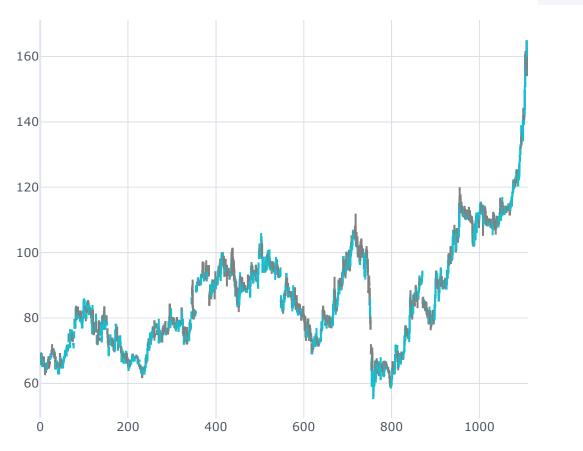
```
In [266... cf.go_offline()
    init_notebook_mode()
```

Out[267... <AxesSubplot:title={'center':"Meezan's stock price"}, xlabel='Time', ylabel='Price'>



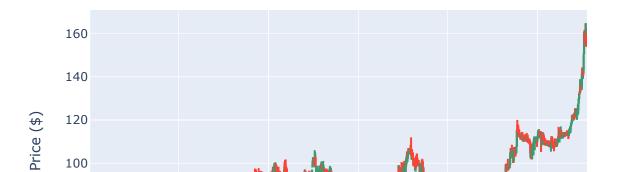
```
In [268... qf = cf.QuantFig(dataset_train, title="Meezan's stock price in 2021", name='Google') qf.iplot()
```





#### **Export to plot.ly »**

# Meezan's adjusted stock price

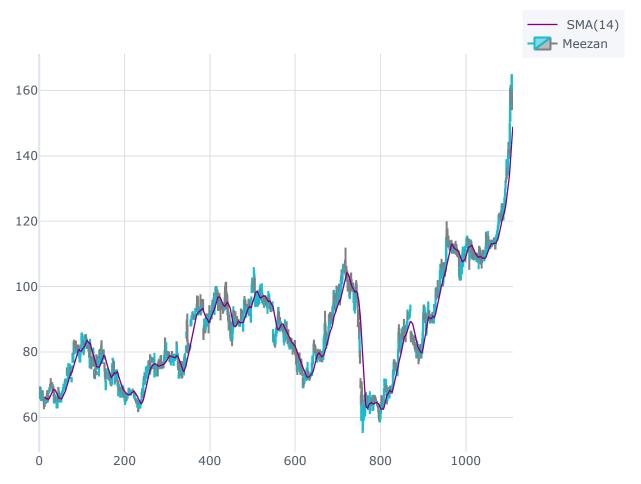




```
In [270...
```

qf = cf.QuantFig(dataset\_train, title="Meezan's stock price in 2021", name='Meezan')
qf.add\_sma(periods=14, column='Close', color='purple')
qf.iplot()

### Meezan's stock price in 2021

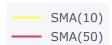


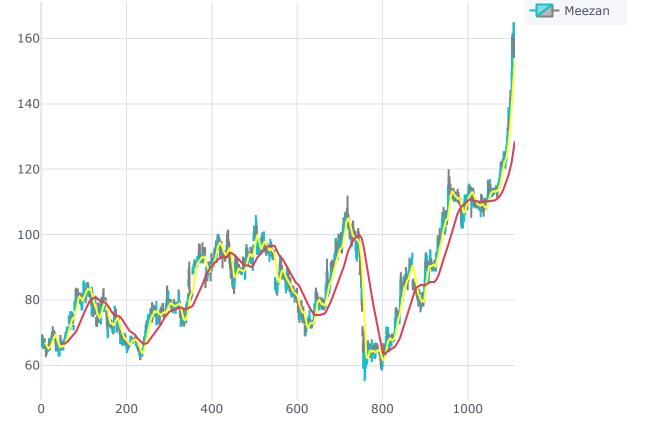
**Export to plot.ly** »

```
In [271...
```

qf = cf.QuantFig(dataset\_train, title="Meezan's stock price in 2021", name='Meezan')
qf.add\_sma([10, 50], width=2, color=['yellow', 'red'])
qf.iplot()

## Meezan's stock price in 2021

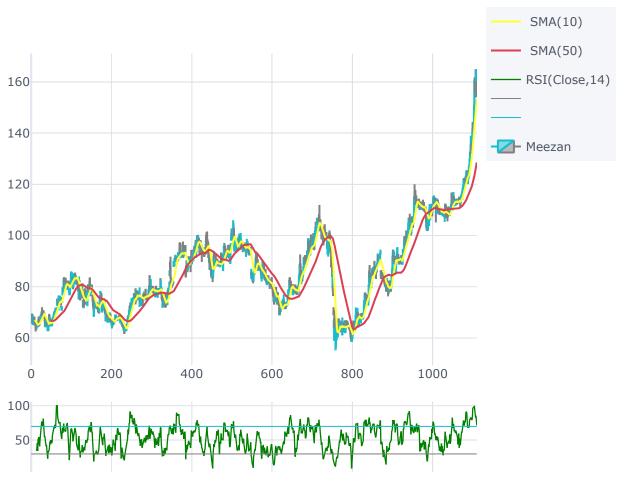




**Export to plot.ly** »

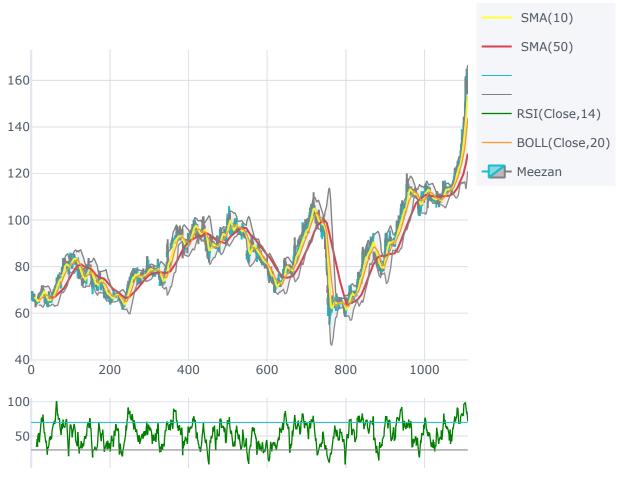
```
In [272...
     qf.add_rsi(periods=14, color='green')
     qf.iplot()
```

# Meezan's stock price in 2021



Export to plot.ly »

### Meezan's stock price in 2021

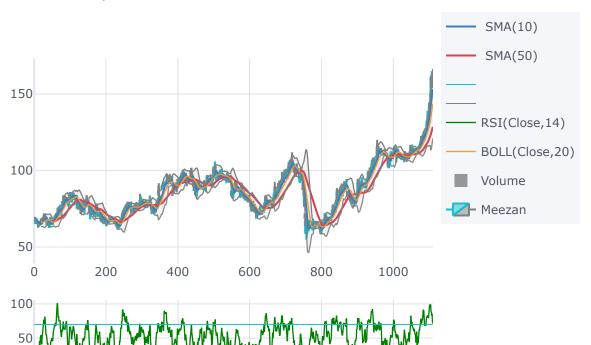


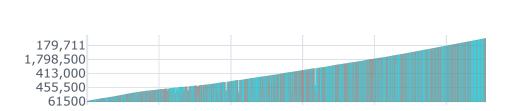
**Export to plot.ly »** 

In [196... qf

qf.add\_volume()
qf.iplot()

### Meezan's stock price in 2021

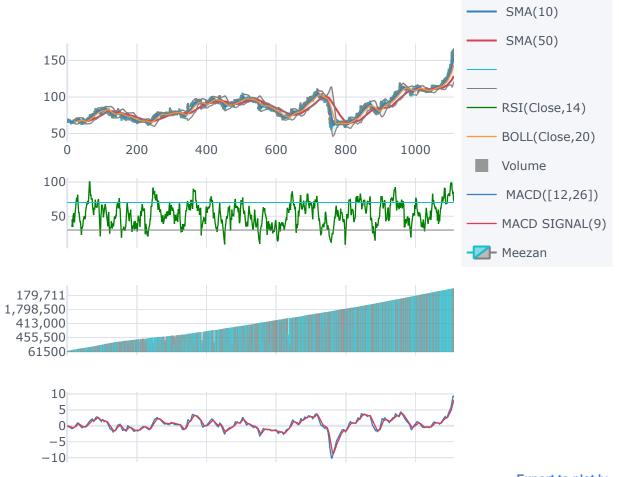




**Export to plot.ly** »

In [197... qf.add\_macd() qf.iplot()

### Meezan's stock price in 2021



**Export to plot.ly** »

In [2]: !jupyter nbconvert --allow-chromium-download

This application is used to convert notebook files (\*.ipynb) to various other formats.

WARNING: THE COMMANDLINE INTERFACE MAY CHANGE IN FUTURE RELEASES.

### Options

======

--debug

```
set log level to logging.DEBUG (maximize logging output)
    Equivalent to: [--Application.log level=10]
--show-config
    Show the application's configuration (human-readable format)
    Equivalent to: [--Application.show config=True]
--show-config-json
    Show the application's configuration (json format)
    Equivalent to: [--Application.show config json=True]
--generate-config
    generate default config file
    Equivalent to: [--JupyterApp.generate config=True]
-y
    Answer yes to any questions instead of prompting.
    Equivalent to: [--JupyterApp.answer yes=True]
--execute
    Execute the notebook prior to export.
    Equivalent to: [--ExecutePreprocessor.enabled=True]
--allow-errors
    Continue notebook execution even if one of the cells throws an error and include the e
rror message in the cell output (the default behaviour is to abort conversion). This flag
is only relevant if '--execute' was specified, too.
    Equivalent to: [--ExecutePreprocessor.allow errors=True]
--stdin
    read a single notebook file from stdin. Write the resulting notebook with default base
name 'notebook.*'
   Equivalent to: [--NbConvertApp.from stdin=True]
--stdout
   Write notebook output to stdout instead of files.
    Equivalent to: [--NbConvertApp.writer class=StdoutWriter]
--inplace
    Run nbconvert in place, overwriting the existing notebook (only
            relevant when converting to notebook format)
    Equivalent to: [--NbConvertApp.use output suffix=False --NbConvertApp.export format=no
tebook --FilesWriter.build directory=]
--clear-output
    Clear output of current file and save in place,
            overwriting the existing notebook.
    Equivalent to: [--NbConvertApp.use output suffix=False --NbConvertApp.export format=no
tebook --FilesWriter.build directory= --ClearOutputPreprocessor.enabled=True]
--no-prompt
    Exclude input and output prompts from converted document.
    Equivalent to: [--TemplateExporter.exclude input prompt=True --TemplateExporter.exclud
e output prompt=True]
--no-input
    Exclude input cells and output prompts from converted document.
            This mode is ideal for generating code-free reports.
    Equivalent to: [--TemplateExporter.exclude output prompt=True --TemplateExporter.exclu
de input=True --TemplateExporter.exclude input prompt=True]
--allow-chromium-download
    Whether to allow downloading chromium if no suitable version is found on the system.
    Equivalent to: [--WebPDFExporter.allow chromium download=True]
--disable-chromium-sandbox
    Disable chromium security sandbox when converting to PDF..
    Equivalent to: [--WebPDFExporter.disable sandbox=True]
--show-input
    Shows code input. This is flag is only useful for dejavu users.
    Equivalent to: [--TemplateExporter.exclude input=False]
--log-level=<Enum>
    Set the log level by value or name.
    Choices: any of [0, 10, 20, 30, 40, 50, 'DEBUG', 'INFO', 'WARN', 'ERROR', 'CRITICAL']
    Default: 30
    Equivalent to: [--Application.log level]
--config=<Unicode>
    Full path of a config file.
    Default: ''
    Equivalent to: [--JupyterApp.config file]
```

```
--to=<Unicode>
    The export format to be used, either one of the built-in formats
            ['asciidoc', 'custom', 'html', 'latex', 'markdown', 'notebook', 'pdf', 'pytho
n', 'rst', 'script', 'slides', 'webpdf']
           or a dotted object name that represents the import path for an
            ``Exporter`` class
    Default: ''
    Equivalent to: [--NbConvertApp.export format]
--template=<Unicode>
    Name of the template to use
    Default: ''
    Equivalent to: [--TemplateExporter.template name]
--template-file=<Unicode>
   Name of the template file to use
    Default: None
    Equivalent to: [--TemplateExporter.template file]
--writer=<DottedObjectName>
    Writer class used to write the
                                       results of the conversion
    Default: 'FilesWriter'
    Equivalent to: [--NbConvertApp.writer class]
--post=<DottedOrNone>
    PostProcessor class used to write the
                                       results of the conversion
    Equivalent to: [--NbConvertApp.postprocessor class]
--output=<Unicode>
    overwrite base name use for output files.
                can only be used when converting one notebook at a time.
    Equivalent to: [--NbConvertApp.output base]
--output-dir=<Unicode>
    Directory to write output(s) to. Defaults
                                  to output to the directory of each notebook. To recover
                                  previous default behaviour (outputting to the current
                                  working directory) use . as the flag value.
    Default: ''
    Equivalent to: [--FilesWriter.build directory]
--reveal-prefix=<Unicode>
    The URL prefix for reveal.js (version 3.x).
            This defaults to the reveal CDN, but can be any url pointing to a copy
           of reveal.js.
           For speaker notes to work, this must be a relative path to a local
           copy of reveal.js: e.g., "reveal.js".
            If a relative path is given, it must be a subdirectory of the
           current directory (from which the server is run).
           See the usage documentation
            (https://nbconvert.readthedocs.io/en/latest/usage.html#reveal-js-html-slidesho
w)
           for more details.
    Default: ''
    Equivalent to: [--SlidesExporter.reveal url prefix]
--nbformat=<Enum>
    The nbformat version to write.
           Use this to downgrade notebooks.
    Choices: any of [1, 2, 3, 4]
    Default: 4
    Equivalent to: [--NotebookExporter.nbformat version]
Examples
_____
    The simplest way to use nbconvert is
```

> jupyter nbconvert mynotebook.ipynb --to html

```
Options include ['asciidoc', 'custom', 'html', 'latex', 'markdown', 'noteboo
k', 'pdf', 'python', 'rst', 'script', 'slides', 'webpdf'].
            > jupyter nbconvert --to latex mynotebook.ipynb
            Both HTML and LaTeX support multiple output templates. LaTeX includes
            'base', 'article' and 'report'. HTML includes 'basic', 'lab' and
            'classic'. You can specify the flavor of the format used.
            > jupyter nbconvert --to html --template lab mynotebook.ipynb
           You can also pipe the output to stdout, rather than a file
            > jupyter nbconvert mynotebook.ipynb --stdout
            PDF is generated via latex
           > jupyter nbconvert mynotebook.ipynb --to pdf
            You can get (and serve) a Reveal.js-powered slideshow
           > jupyter nbconvert myslides.ipynb --to slides --post serve
           Multiple notebooks can be given at the command line in a couple of
           different ways:
            > jupyter nbconvert notebook*.ipynb
            > jupyter nbconvert notebook1.ipynb notebook2.ipynb
            or you can specify the notebooks list in a config file, containing::
                c.NbConvertApp.notebooks = ["my notebook.ipynb"]
            > jupyter nbconvert --config mycfg.py
To see all available configurables, use `--help-all`.
```

In [ ]: