

Home

lab - JupyterLab

localhost:8888/lab

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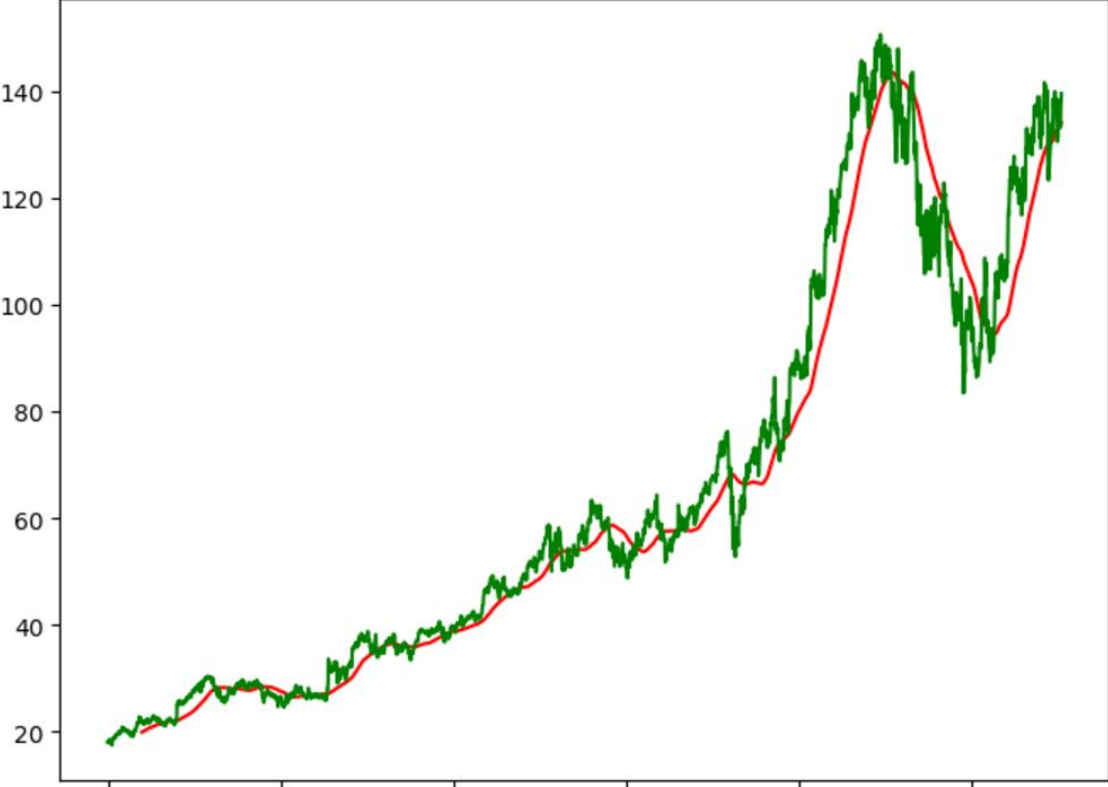
Filter files by name

Name	Last Modified
Favorites	2 years ago
javaprogramming	last year
Links	2 years ago
Microsoft	2 months ago
Music	2 years ago
My project	12 months ago
My projects	12 months ago
OneDrive	5 months ago
project 2	6 months ago
PycharmProjects	last year
Saved Games	2 years ago
Searches	2 years ago
source	11 months ago
Videos	2 years ago

StockPrediction.ipynb

Code

Notebook Python 3 (ipykernel)



Simple 0 1 Python 3 (ipykernel) | Idle Mode: Command Ln 1, Col 1 StockPrediction.ipynb 1

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StockPrediction.ipynb

Code

NotebookPython 3 (ipykernel)

Epoch 1/50  
66/66 13s 104ms/step - loss: 0.0375  
Epoch 2/50  
66/66 8s 122ms/step - loss: 0.0048  
Epoch 3/50  
66/66 8s 114ms/step - loss: 0.0040  
Epoch 4/50  
66/66 7s 101ms/step - loss: 0.0033  
Epoch 5/50  
66/66 7s 109ms/step - loss: 0.0040  
Epoch 6/50  
66/66 8s 123ms/step - loss: 0.0030  
Epoch 7/50  
66/66 7s 109ms/step - loss: 0.0028  
Epoch 8/50  
66/66 8s 116ms/step - loss: 0.0025  
Epoch 9/50  
66/66 8s 115ms/step - loss: 0.0023  
Epoch 10/50  
66/66 8s 126ms/step - loss: 0.0033  
Epoch 11/50  
66/66 7s 112ms/step - loss: 0.0024  
Epoch 12/50  
66/66 8s 120ms/step - loss: 0.0023  
Epoch 13/50  
66/66 9s 143ms/step - loss: 0.0023  
Epoch 14/50  
66/66 8s 125ms/step - loss: 0.0023

Simple

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Python 3 (ipykernel) | Idle

Mode: Command

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StockPrediction.ipynb

Code

NotebookPython 3 (ipykernel)

Epoch 14/50  
66/66 8s 125ms/step - loss: 0.0023  
Epoch 15/50  
66/66 8s 116ms/step - loss: 0.0019  
Epoch 16/50  
66/66 9s 102ms/step - loss: 0.0019  
Epoch 17/50  
66/66 8s 120ms/step - loss: 0.0019  
Epoch 18/50  
66/66 8s 119ms/step - loss: 0.0023  
Epoch 19/50  
66/66 8s 124ms/step - loss: 0.0016  
Epoch 20/50  
66/66 8s 124ms/step - loss: 0.0021  
Epoch 21/50  
66/66 8s 126ms/step - loss: 0.0018  
Epoch 22/50  
66/66 8s 118ms/step - loss: 0.0017  
Epoch 23/50  
66/66 8s 119ms/step - loss: 0.0017  
Epoch 24/50  
66/66 11s 168ms/step - loss: 0.0016  
Epoch 25/50  
66/66 11s 160ms/step - loss: 0.0017  
Epoch 26/50  
66/66 19s 136ms/step - loss: 0.0017  
Epoch 27/50  
66/66 10s 157ms/step - loss: 0.0015

Simple

0

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Python 3 (ipykernel) | Idle

Mode: Command

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StockPrediction.ipynb

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Notebook Python 3 (ipykernel)

```
66/66 9s 132ms/step - loss: 0.0014
Epoch 32/50
66/66 9s 133ms/step - loss: 0.0015
Epoch 33/50
66/66 9s 129ms/step - loss: 0.0021
Epoch 34/50
66/66 9s 130ms/step - loss: 0.0015
Epoch 35/50
66/66 8s 126ms/step - loss: 0.0015
Epoch 36/50
66/66 8s 118ms/step - loss: 0.0019
Epoch 37/50
66/66 8s 118ms/step - loss: 0.0020
Epoch 38/50
66/66 8s 123ms/step - loss: 0.0014
Epoch 39/50
66/66 8s 118ms/step - loss: 0.0016
Epoch 40/50
66/66 8s 119ms/step - loss: 0.0014
Epoch 41/50
66/66 8s 119ms/step - loss: 0.0015
Epoch 42/50
66/66 8s 119ms/step - loss: 0.0014
Epoch 43/50
66/66 8s 119ms/step - loss: 0.0015
Epoch 44/50
66/66 8s 122ms/step - loss: 0.0014
Epoch 45/50
```

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StockPrediction.ipynb

Code

NotebookPython 3 (ipykernel)

Model: "sequential\_3"

Layer (type)	Output Shape	Param #
lstm_5 (LSTM)	(None, 100, 50)	10,400
dropout_5 (Dropout)	(None, 100, 50)	0
lstm_6 (LSTM)	(None, 100, 60)	26,640
dropout_6 (Dropout)	(None, 100, 60)	0
lstm_7 (LSTM)	(None, 100, 80)	45,120
dropout_7 (Dropout)	(None, 100, 80)	0
lstm_8 (LSTM)	(None, 120)	96,480
dropout_8 (Dropout)	(None, 120)	0
dense (Dense)	(None, 1)	121

Total params: 536,285 (2.05 MB)

Trainable params: 178,761 (698.29 KB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 357,524 (1.36 MB)

Simple

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Python 3 (ipykernel) | Idle

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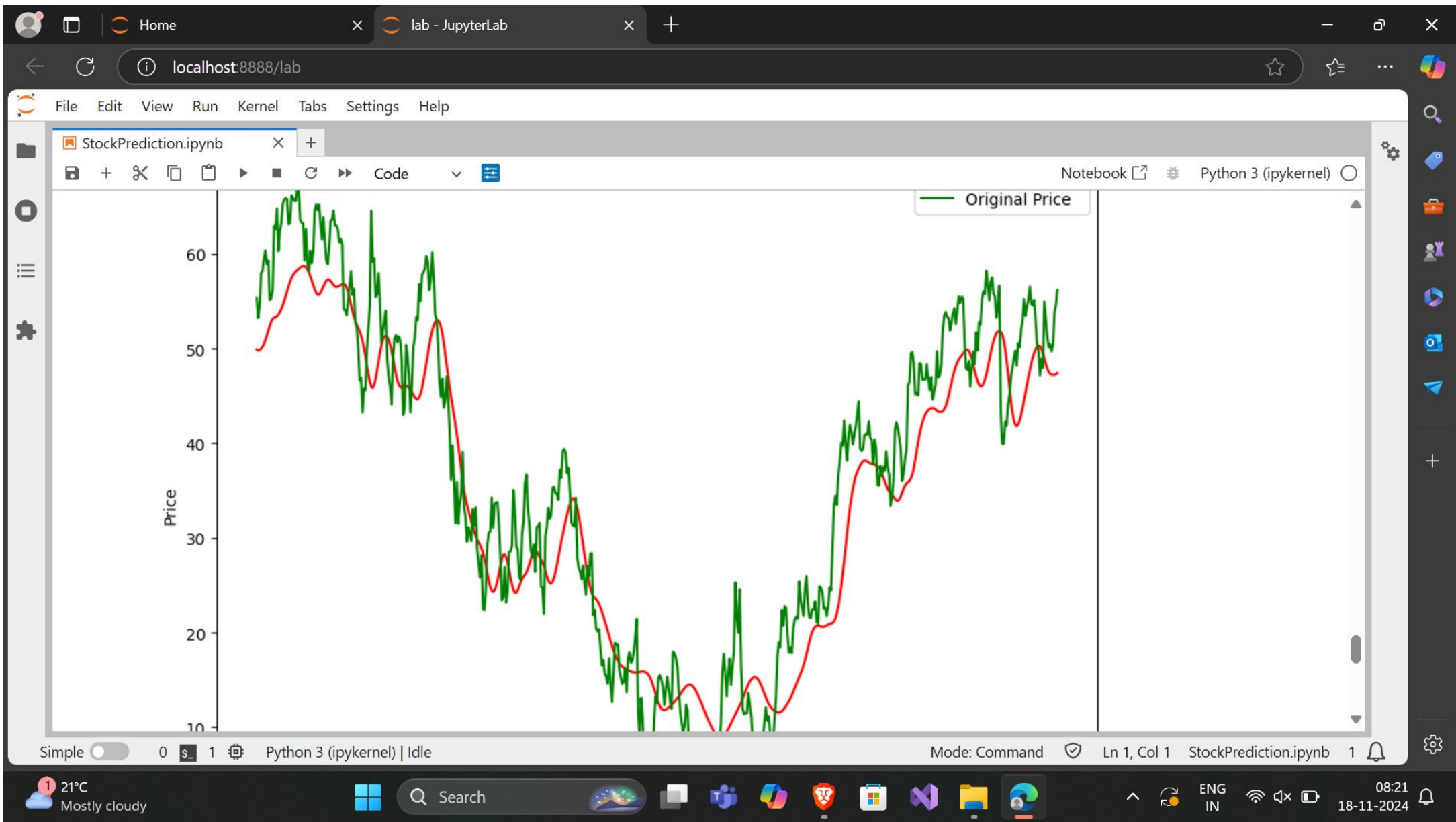
1

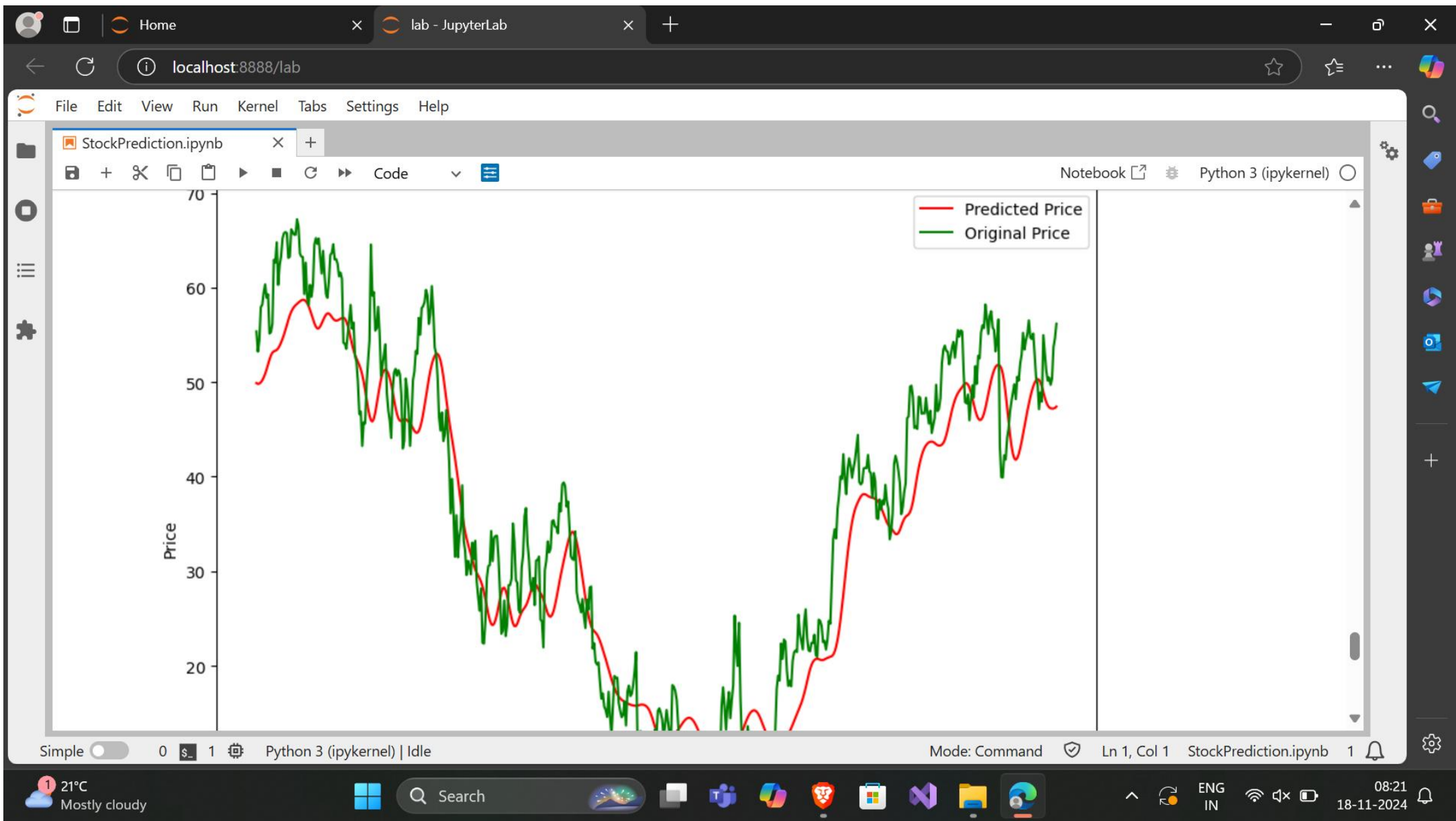
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NotebookPython 3 (ipykernel)

[4]:

	Price	Date	Adj Close	Close	High	Low	Open	Volume
	Ticker		GOOG	GOOG	GOOG	GOOG	GOOG	GOOG
0		2013-01-02 00:00:00+00:00	17.969599	18.013729	18.107130	17.846855	17.918339	102033017
1		2013-01-03 00:00:00+00:00	17.980036	18.024191	18.229919	17.950716	18.055573	93075567
2		2013-01-04 00:00:00+00:00	18.335327	18.380356	18.467529	18.124067	18.165413	110954331
3		2013-01-07 00:00:00+00:00	18.255325	18.300158	18.415474	18.196297	18.317591	66476239
4		2013-01-08 00:00:00+00:00	18.219299	18.264042	18.338762	18.043119	18.319834	67295297
...		...	...	...	...	...	...	...
2757		2023-12-14 00:00:00+00:00	132.873688	133.199997	135.035004	131.059998	134.770004	29619100
2758		2023-12-15 00:00:00+00:00	133.512115	133.839996	134.830002	132.630005	132.919998	58569400
2759		2023-12-18 00:00:00+00:00	136.853912	137.190002	138.380005	133.770004	133.860001	25699800
2760		2023-12-19 00:00:00+00:00	137.761688	138.100006	138.770004	137.449997	138.000000	20661000
2761		2023-12-20 00:00:00+00:00	139.317856	139.660004	143.078003	139.410004	140.330002	33507300

2762 rows × 7 columns

Simple01Python 3 (ipykernel) | Idle

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Notebook Python 3 (ipykernel)

[1]:  
import numpy as np  
import pandas as pd  
import matplotlib.pyplot as plt  
import yfinance as yf

[2]:  
start = '2013-01-01'  
end = '2023-12-21'  
stock = 'GOOG'  
  
data = yf.download(stock, start, end)  

[\*\*\*\*\*100%\*\*\*\*\*] 1 of 1 completed

[3]: data.reset\_index(inplace=True)

[4]: data

	Price	Date	Adj Close	Close	High	Low	Open	Volume
Ticker			GOOG	GOOG	GOOG	GOOG	GOOG	GOOG
0	2013-01-02 00:00:00+00:00	17.969599	18.013729	18.107130	17.846855	17.918339	102033017	
1	2013-01-03 00:00:00+00:00	17.980036	18.024191	18.229919	17.950716	18.055573	93075567	
2	2013-01-04 00:00:00+00:00	18.335327	18.380356	18.467529	18.124067	18.165413	110954331	

Simple 0 1 Python 3 (ipykernel) | Idle

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