

Stock Prediction App Code:

```
first app.py - D:\My Data\Downloads\first app.py (3.12.4)
File Edit Format Run Options Window Help
import streamlit as st
import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression

# page main title
st.set_page_config(page_title="Stock Prediction", layout="wide")

# App - Main heading
st.markdown("<h1 style='text-align: center; color: #FFD700;'>Stock Price Prediction App</h1>", unsafe_allow_html=True)

# Sidebar for selecting
option = st.sidebar.selectbox("Select a Stock", ["Tesla", "Reliance", "AAPL"])

# For title based on selection
if option == "Tesla":
    title_text = "Tesla Stock Prediction"
    data_path = r"D:\My Data\Downloads\TSLA.csv"
elif option == "Reliance":
    title_text = "Reliance Stock Prediction"
    data_path = r"D:\My Data\Downloads\RELIANCE.NS.csv"
elif option == "AAPL":
    title_text = "AAPL Stock Prediction"
    data_path = r"D:\My Data\Downloads\AAPL.csv"

# Display title style
st.markdown(f"<h2 style='text-align: center; color: #ff007d;'>{title_text}</h2>", unsafe_allow_html=True)

# Load dataset path
data = pd.read_csv(data_path)

# Date column to datetime format coersion
if 'Date' in data.columns:
    data['Date'] = pd.to_datetime(data['Date'])

# Handle missing values for nuber coloumn
data.fillna(data.select_dtypes(include=[np.number]).mean(), inplace=True)

# having only number coloumn
X = data[['High', 'Low', 'Open', 'Volume']].copy()
```

Code run:

```
Command Prompt - streamlit
Microsoft Windows [Version 10.0.26100.3037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\My>streamlit run "D:\My Data\Downloads\first app.py"

You can now view your Streamlit app in your browser.

Local URL: http://localhost:8501
Network URL: http://192.168.0.103:8501
```

Output:

Stock Prediction

localhost:8501

Time sheetEmulatorFinance and Operati...Product dimensions...Released product d...e-Yantra: Technical...Sairam payment siteSearchAll Xavier - Agile Bo...

Deploy

Select a Stock
Tesla

Stock Price Prediction App

Tesla Stock Prediction

Stock Data Preview

	Date	Open	High	Low	Close	Adj Close	Volume
0	2010-06-30 00:00:00	5.158	6.084	4.66	4.766	4.766	85,935,500
1	2010-07-01 00:00:00	5	5.184	4.054	4.392	4.392	41,094,000
2	2010-07-02 00:00:00	4.6	4.62	3.742	3.84	3.84	25,699,000
3	2010-07-06 00:00:00	4	4	3.166	3.222	3.222	34,334,500
4	2010-07-07 00:00:00	3.28	3.326	2.996	3.16	3.16	34,608,500
5	2010-07-08 00:00:00	3.228	3.504	3.114	3.492	3.492	38,557,000
6	2010-07-09 00:00:00	3.516	3.58	3.31	3.48	3.48	20,253,000
7	2010-07-12 00:00:00	3.59	3.614	3.4	3.41	3.41	11,012,500
8	2010-07-13 00:00:00	3.478	3.728	3.38	3.628	3.628	13,400,500
9	2010-07-14 00:00:00	3.588	4.03	3.552	3.968	3.968	20,976,000

Model Training Info

Selected Stock: Tesla

Number of Entries: 2579

Features Used: High, Low, Open, Volume

Model Type: Linear Regression

Predict the Closing Price

High Price:Low Price:Open Price:Volume:

Stock Prediction

localhost:8501

Time sheetEmulatorFinance and Operati...Product dimensions...Released product d...e-Yantra: Technical...Sairam payment siteSearchAll Xavier - Agile Bo...

Deploy

Select a Stock
Tesla

Tesla Stock Prediction

Stock Data Preview

	Date	Open	High	Low	Close	Adj Close	Volume
0	2010-06-30 00:00:00	5.158	6.084	4.66	4.766	4.766	85,935,500
1	2010-07-01 00:00:00	5	5.184	4.054	4.392	4.392	41,094,000
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3	2010-07-06 00:00:00	4	4	3.166	3.222	3.222	34,334,500
4	2010-07-07 00:00:00	3.28	3.326	2.996	3.16	3.16	34,608,500
5	2010-07-08 00:00:00	3.228	3.504	3.114	3.492	3.492	38,557,000
6	2010-07-09 00:00:00	3.516	3.58	3.31	3.48	3.48	20,253,000
7	2010-07-12 00:00:00	3.59	3.614	3.4	3.41	3.41	11,012,500
8	2010-07-13 00:00:00	3.478	3.728	3.38	3.628	3.628	13,400,500
9	2010-07-14 00:00:00	3.588	4.03	3.552	3.968	3.968	20,976,000

Model Training Info

Selected Stock: Tesla

Number of Entries: 2579

Features Used: High, Low, Open, Volume

Model Type: Linear Regression

Predict the Closing Price

High Price:
830.00

Low Price:
820.00

Open Price:
810.00

Volume:
1600

Predict Closing Price

Predicted Closing Price for Tesla: 831.60

Stock Prediction

localhost:8501

Time sheetEmulatorFinance and Operati...Product dimensions...Released product d...e-Yantra: Technical...Sairam payment siteSearchAll Xavier - Agile Bo...

Deploy

Select a Stock
Reliance

Reliance Stock Prediction

Stock Data Preview

	Date	Open	High	Low	Close	Adj Close	Volume
0	2013-01-01 00:00:00	18.0374	19.3252	15.6104	16.4029	387.8852	3,152,667
1	2013-01-02 00:00:00	18.0374	13.9811	17.3192	19.9939	391.2302	6,203,434
2	2013-01-03 00:00:00	19.3158	16.9529	18.3346	16.3338	397.1358	7,968,629
3	2013-01-04 00:00:00	16.9034	18.2407	12.7676	16.8786	397.6434	6,140,890
4	2013-01-07 00:00:00	18.7856	11.4106	11.9008	14.2783	395.2211	7,064,261
5	2013-01-08 00:00:00	13.5353	15.0212	19.9691	11.3312	392.4759	6,448,905
6	2013-01-09 00:00:00	122.198	125.888	10.3406	12.3466	393.4218	7,878,644
7	2013-01-10 00:00:00	14.8479	15.4422	19.5233	121.034	392.199	4,264,172
8	2013-01-11 00:00:00	12.2475	12.4952	14.1988	16.0067	387.5161	3,715,209
9	2013-01-14 00:00:00	16.5515	12.4952	15.5609	18.7957	391.9456	3,258,598

Model Training Info

Selected Stock: Reliance

Number of Entries: 2470

Features Used: High, Low, Open, Volume

Model Type: Linear Regression

Predict the Closing Price

High Price:
830.00

Low Price:
820.00

Open Price:
810.00

Volume:
1600

Predict Closing Price

Predicted Closing Price for Reliance: 834.27

Stock Prediction

localhost:8501

Time sheetEmulatorFinance and Operati...Product dimensions...Released product d...e-Yantra: Technical...Sairam payment siteSearchAll Xavier - Agile Bo...

Select a Stock
AAPL

AAPL Stock Prediction

Stock Data Preview

	Date	Open	High	Low	Close	Adj Close	Volume
0	2014-09-29 00:00:00	100.59	100.69	98.04	99.62	93.5143	142,718,700
1	2014-10-06 00:00:00	99.95	102.38	98.31	100.73	94.5562	280,258,200
2	2014-10-13 00:00:00	101.33	101.78	95.18	97.67	91.6838	358,539,800
3	2014-10-20 00:00:00	98.32	105.49	98.22	105.22	98.771	358,532,900
4	2014-10-27 00:00:00	104.85	108.04	104.7	108	101.3807	220,230,600
5	2014-11-03 00:00:00	108.22	110.3	107.72	109.01	102.3288	199,952,900
6	2014-11-10 00:00:00	109.02	114.19	108.4	114.18	107.6467	205,166,700
7	2014-11-17 00:00:00	114.27	117.57	113.3	116.47	109.8056	233,414,700
8	2014-11-24 00:00:00	116.85	119.75	116.62	118.93	112.1249	181,873,900
9	2014-12-01 00:00:00	118.81	119.25	111.27	115	108.4197	266,589,700

Model Training Info

Selected Stock: AAPL

Number of Entries: 184

Features Used: High, Low, Open, Volume

Model Type: Linear Regression

Predict the Closing Price

High Price:
830.00

Low Price:
820.00

Open Price:
810.00

Volume:
1600

Predict Closing Price

Predicted Closing Price for AAPL: 833.24

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Windows Taskbar Icons

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19:38
28-02-2025