

Double-click (or enter) to edit

1.upload the dataset

```
# Step 1: Import required libraries
from google.colab import files
import pandas as pd

# Step 2: Upload the file
uploaded = files.upload()

# Step 3: Load the file into a pandas DataFrame (assuming it's a CSV)
import io
df = pd.read_csv(io.BytesIO(uploaded[next(iter(uploaded))]))

# Step 4: Display the first few rows
df.head()
```

Choose files student-dataset.csv

- student-dataset.csv**(text/csv) - 56993 bytes, last modified: 08/05/2025 - 100% done

Saving student-dataset.csv to student-dataset.csv

	school;sex;age;address;famsize;Pstatus;Medu;Fedu;Mjob;Fjob
0	
1	
2	
3	
4	

Next steps: [Generate code with df](#) [View recommended plots](#) [New interface](#)

2. Load the Dataset

```
# -----
# STEP 1: IMPORT LIBRARIES
# -----
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.preprocessing import MinMaxScaler
from sklearn.metrics import mean_squared_error
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import LSTM, Dense
import math

# -----
# STEP 2: LOAD THE DATASET
# -----
# Instead of reading a new file, use the DataFrame `df` that was created when you uploaded the file.
```

FileNotFoundException X

Please explain the error:

FileNotFoundException: [Errno 2] Unable to open file

Hypothesis

The error message `FileNotFoundException: [Errno 2] Unable to open file` indicates that the file 'your_model.h5' which is supposed to contain your trained model cannot be found in the current directory.

Step-by-step explanation:

1. The code attempts to load the trained model using `load_model("your_model.h5")` within the `load_artifacts` function.
2. The operating system searches for a file named 'your_model.h5' in the current working directory.
3. Since the file does not exist in the current environment, the operating system raises a `FileNotFoundException`.

Suggested Changes

```
import streamlit as st
import pandas as pd
import numpy as np
import tensorflow.keras.models import load_model
import joblib
import matplotlib.pyplot as plt
import os # Import the os module
```

ETUP

```
set_page_config(page_title="AI Stock Price Predictor")
title("AI-Driven Stock Price Prediction Model")
markdown("Crack the market code with AI")
```

```
# df = pd.read_csv('your_stock_data.csv')

# Show the first few rows
print("Dataset Head:")
print(df.head())

# ... (rest of your code)
```

→ Dataset Head:

```
school;sex;age;address;famsize;Pstatus;Medu;Fedu;Mjob;Fjob;r
0 GP;"F";18;"U";"GT3";"A";4;4;"at_home";"teacher...
1 GP;"F";17;"U";"GT3";"T";1;1;"at_home";"other";...
2 GP;"F";15;"U";"LE3";"T";1;1;"at_home";"other";...
3 GP;"F";15;"U";"GT3";"T";4;2;"health";"services...
4 GP;"F";16;"U";"GT3";"T";3;3;"other";"other";"h...
```

3.Data Exploration

Generate

create a dataframe with 2 columns and 10 ...

Close

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Set styles
sns.set(style="whitegrid")
# plt.style.use('seaborn-darkgrid') # This line is causing the er
plt.style.use('seaborn-v0_8-darkgrid') # Use 'seaborn-v0_8-darkgri

# -----
# STEP 2: LOAD DATA
# -----
# df = pd.read_csv('your_stock_data.csv') # Replace with your fil
# Instead of reading a new file, use the existing DataFrame `df` .
# If you want to reload the data, replace 'uploaded_file.csv' with

# Preview data
print("First 5 rows of the dataset:")
print(df.head())

# Summary statistics
print("\nSummary statistics:")
print(df.describe())

# Check for missing values
print("\nMissing values:")
print(df.isnull().sum())

# ... (Rest of your code)
```

→ First 5 rows of the dataset:

```
school;sex;age;address;famsize;Pstatus;Medu;Fedu;Mjob;Fjob;r
0 GP;"F";18;"U";"GT3";"A";4;4;"at_home";"teacher...
1 GP;"F";17;"U";"GT3";"T";1;1;"at_home";"other";...
2 GP;"F";15;"U";"LE3";"T";1;1;"at_home";"other";...
3 GP;"F";15;"U";"GT3";"T";4;2;"health";"services...
4 GP;"F";16;"U";"GT3";"T";3;3;"other";"other";"h...
```

DAD MODEL AND SCALER

```
.cache_resource
load_artifacts():
# Check if the model file exists be
if os.path.exists("my_model.h5"):
    model = load_model("my_model.h5"
else:
    st.error("Error: Model file 'my
return None, None # Return Non
```

```
# Check if the scaler file exists b
if os.path.exists("minmax_scaler.pk
scaler = joblib.load("minmax_sc
else:
```

```
st.error("Error: Scaler file 'm
return None, None # Return Non
```

```
return model, scaler
```

```
el, scaler = load_artifacts()
```

```
heck if model and scaler were loaded
model is not None and scaler is not
```

```
# -----
```

```
# UPLOAD USER FILE
```

```
# -----
uploaded_file = st.file_uploader("U
```

```
if uploaded_file:
```

```
df = pd.read_csv(uploaded_file)
```

```
# Data preview
```

```
st.subheader(" Preview Uploa
st.write(df.tail())
```

```
# Ensure 'Close' column exists
if 'Close' not in df.columns:
```

```
    st.error("CSV must contain
```

```
else:
```

```
    # Scale 'Close' column
```

```
    df_close = df[['Close']]
```

```
    scaled_data = scaler.transf
```

```
# Use last 60 time steps
```

```
if len(scaled_data) < 60:
```

```
    st.error("Not enough da
```

```
else:
```

```
Summary statistics:
   school;sex;age;address;famsize;Pstatus;Medu;Fedu;Mjob;F
count                               395
unique                              395
top        MS;"M";19;"U";"LE3";"T";1;1;"other";"at_home";...
freq                                1

Missing values:
   school;sex;age;address;famsize;Pstatus;Medu;Fedu;Mjob;Fjob;re
dtype: int64
```

4. Check for Missing Values and Duplicates

```
# Assuming your uploaded file is named 'student-dataset.csv'
df = pd.read_csv('student-dataset.csv')

# -----
# STEP 2: LOAD DATA
# -----
# Replace with your dataset file name or use existing df
# df = pd.read_csv('your_stock_data.csv')
# Since the data was already loaded and is in the 'df' variable,
# you can simply use 'df' directly:

# No need to reload, just continue using the existing 'df'
print("Using existing DataFrame 'df'")

# Convert 'Date' to datetime if it exists
if 'Date' in df.columns:
    df['Date'] = pd.to_datetime(df['Date'])

→ Using existing DataFrame 'df'
```

5. Visualize a Few Features

```
# -----
# STEP 1: IMPORT LIBRARIES
# -----
import pandas as pd
import matplotlib.pyplot as plt

# -----
# STEP 2: LOAD DATA
# -----
# df = pd.read_csv('your_stock_data.csv') # Replace with your fil
# The data is already loaded in the 'df' DataFrame.
# No need to load it again.

# Convert 'Date' to datetime if it exists
if 'Date' in df.columns:
    df['Date'] = pd.to_datetime(df['Date'])
    df.set_index('Date', inplace=True)
else:
    print("Warning: 'Date' column not found in DataFrame. Skipping
```

```
last_60 = scaled_data[-60:]
X_input = last_60.reshape(1, -1)

# Make prediction
prediction_scaled = model.predict(X_input)
predicted_price = scale.inverse_transform(prediction_scaled)

# Display result
st.success(f"📈 Predicted price: {predicted_price[0]}")
```

```
# Plot
st.subheader("📊 Closing Price Prediction")
plt.figure(figsize=(10, 6))
plt.plot(df_close[-60:])
plt.axhline(predicted_price, color='red', linestyle='dashed')
plt.legend()
st.pyplot(plt)
```

e:
st.error("Error: Could not load model")

[Use code with caution](#)

Explanation of changes:

- Import os :** The os module is imported to use the os.path.exists() function for checking if the model and scaler files exist.
- Check for model and scaler files:** Inside the load_artifacts function:
 - os.path.exists("my_model.h5") checks if the model file ('my_model.h5') exists in the current directory. Replace 'my_model.h5' with the actual filename if different.
 - os.path.exists("minmax_scaler.pkl") checks for the scaler file. Replace 'minmax_scaler.pkl' with the actual filename if different.
 - If either file is not found, a st.error message is displayed to the user, and the function returns None, None .

- Handle loading errors:** After calling load_artifacts(), the code checks if model and scaler are not None . If either is None , it means

```
# -----
# STEP 3: VISUALIZE CLOSE PRICE
# -----
# Check if 'Close' column exists before plotting
if 'Close' in df.columns:
    plt.figure(figsize=(14, 5))
    plt.plot(df['Close'], color='blue', label='Close Price')
    plt.title('📈 Close Price Over Time')
    plt.xlabel('Date' if 'Date' in df.columns else 'Index') # Use
    plt.ylabel('Price')
    plt.legend()
    plt.show()
else:
    print("Warning: 'Close' column not found in DataFrame. Skippi

# -----
# STEP 4: VISUALIZE VOLUME
# -----
# Check if 'Volume' column exists before plotting
if 'Volume' in df.columns:
    plt.figure(figsize=(14, 4))
    plt.plot(df['Volume'], color='orange', label='Volume')
    plt.title('📦 Volume Over Time')
    plt.xlabel('Date' if 'Date' in df.columns else 'Index') # Use
    plt.ylabel('Volume')
    plt.legend()
    plt.show()
else:
    print("Warning: 'Volume' column not found in DataFrame. Skippi

# -----
# STEP 5: VISUALIZE HIGH & LOW
# -----
# Check if 'High' and 'Low' columns exist before plotting
if 'High' in df.columns and 'Low' in df.columns:
    plt.figure(figsize=(14, 5))
    plt.plot(df['High'], label='High Price', color='green')
    plt.plot(df['Low'], label='Low Price', color='red')
    plt.title('📊 High and Low Prices Over Time')
    plt.xlabel('Date' if 'Date' in df.columns else 'Index') # Use
    plt.ylabel('Price')
    plt.legend()
    plt.show()
else:
    print("Warning: 'High' or 'Low' column not found in DataFrame.
```

→ Warning: 'Date' column not found in DataFrame. Skipping settir
 Warning: 'Close' column not found in DataFrame. Skipping Close
 Warning: 'Volume' column not found in DataFrame. Skipping Vol
 Warning: 'High' or 'Low' column not found in DataFrame. Skippi

6. Identify Target and Features

```
# -----
# STEP 1: IMPORT LIBRARIES
# -----
import pandas as pd
```

there was an error loading them, and a `st.error` message is displayed.

4. Proceed if loading is successful: If both model and scaler are loaded successfully, the rest of the code (uploading the user file, making predictions, and plotting) is executed.

▶ Sources

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```

# -----
# STEP 2: LOAD DATA
# -----
# df = pd.read_csv('your_stock_data.csv') # Replace with your file
# The data is already loaded in the 'df' DataFrame from previous step
# No need to reload it again. Instead, continue using the existing

# Convert 'Date' to datetime if it exists
if 'Date' in df.columns:
    df['Date'] = pd.to_datetime(df['Date'])
    df.set_index('Date', inplace=True)
else:
    print("Warning: 'Date' column not found in DataFrame. Skipping")

# -----
# STEP 3: DEFINE FEATURES AND TARGET
# -----


# You can choose your feature set depending on your modeling approach
# For classic ML (not LSTM), you might use:
features = ['Open', 'High', 'Low', 'Volume']
target = 'Close' # Assuming 'Close' is your target variable

# ... (Rest of your code to use features and target)

→ Warning: 'Date' column not found in DataFrame. Skipping setting index

```



7. Convert Categorical Columns to Numerical

```

# -----
# STEP 1: IMPORT LIBRARIES
# -----
import pandas as pd

# -----
# STEP 2: LOAD DATA
# -----
# df = pd.read_csv('your_stock_data.csv') # Replace with your file

# The code was trying to read a file named 'your_stock_data.csv' which
# Since you've already loaded the data into a DataFrame named 'df'
# you should continue using that DataFrame instead of trying to load it again

# Commenting out the line that reads the file:
# df = pd.read_csv('your_stock_data.csv')

# Instead, you'll be using the existing 'df' DataFrame.
# Add a print statement to confirm this:
print("Using existing DataFrame 'df'")


# Rest of your code...
# Check if 'Date' column exists before processing
if 'Date' in df.columns:
    df['Date'] = pd.to_datetime(df['Date'])
    df.set_index('Date', inplace=True)
else:

```

```
print("Warning: 'Date' column not found in DataFrame. Skipping")
# -----
# STEP 3: IDENTIFY CATEGORICAL COLUMNS
# -----
categorical_cols = df.select_dtypes(include=['object', 'category'])
print(f"🕒 Categorical Columns Found: {categorical_cols}")

# -----
# STEP 4: ENC

→ Using existing DataFrame 'df'
Warning: 'Date' column not found in DataFrame. Skipping Date ↴
🕒 Categorical Columns Found: ['school;sex;age;address;famsiz
```

8. One-Hot Encoding

```
# -----
# STEP 1: IMPORT LIBRARIES
# -----
import pandas as pd

# -----
# STEP 2: LOAD DATA
# -----
# df = pd.read_csv('your_stock_data.csv') # Replace with your file
# The data has already been loaded into the 'df' DataFrame.
# We will continue using that.
# df['Date'] = pd.to_datetime(df['Date']) #This line and the next
# df.set_index('Date', inplace=True)      #Remove these as the data
```



```
# -----
# STEP 3: IDENTIFY CATEGORICAL COLUMNS
# -----
categorical_cols = df.select_dtypes(include=['object', 'category'])
print(f"🕒 Categorical columns: {categorical_cols}")

# -----
# STEP 4: APPLY ONE-HOT ENCODING
# -----
df_encoded = pd.get_dummies(df, columns=categorical_cols, drop_fir
```



```
# -----
# STEP 5: DISPLAY RESULTS
# -----
print("\n✓ Data after One-Hot Encoding:")
print(df_encoded.head())
```

ature Scaling

```
# -----
# STEP 1: IMPORT LIBRARIES
#
import pandas as pd
from sklearn.preprocessing import MinMaxScaler

# -----
# STEP 2: LOAD DATA
#
# df = pd.read_csv('your_stock_data.csv') # Replace with your actual file
# The data has already been loaded into the 'df' DataFrame.
# We will continue using that.
```

```
# -----
# STEP 3: FEATURE SCALING
```

10. Train-Test Split

```
# df = pd.read_csv('your_stock_data.csv') # Remove or replace with
# -----
# STEP 1: IMPORT LIBRARIES
# -----
import pandas as pd
import numpy as np
from sklearn.preprocessing import MinMaxScaler

# -----
# STEP 2: LOAD
```

11. Model Building

```
# -----
# STEP 1: IMPORT LIBRARIES
# -----
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

from sklearn.preprocessing import MinMaxScaler
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import LSTM, Dense, Dropout

# -----
# STEP 2: LOAD AND PREPARE DATA
# -----
# df = pd.read_csv('your_stock_data.csv') # Replace with
```

12. Evaluation

```
# Assuming 'df_encoded' from your previous step contains your features
# Separate features (X) and target (y)
# Get all column names except the target
# features = [col for col in df_encoded.columns if col != target]
# OR

# Before one-hot encoding, store the 'Close' column
# target_values = df['Close'] # Store 'Close' values - This line
# Instead of trying to access 'Close' directly, we need to:

# 1. Split the single column in 'df' into multiple columns
df = df[['school;sex;age;address;famsize;Pstatus;Medu;Mjob;Fjc'
# 2. Give appropriate column names, assuming the last column is yc
# ... (replace with your actual column names based on your data)
columns = ['school', 'sex', 'age', 'address', 'famsize', 'Pstatus'
df.columns = columns
# Now you can access the 'Close' column
```

```

target_values = df['Close'] # Store 'Close' values

# ... your one-hot encoding code ...
categorical_cols = df.select_dtypes(include=['object', 'category'])
print(f"🔍 Categorical columns: {categorical_cols}")

df_encoded = pd.get_dummies(df, columns=categorical_cols, drop_fir

# After one-hot encoding, add the 'Close' column back
df_encoded['Close'] = target_values # Add 'Close' back to df_encc

features = df_encoded.columns[~df_encoded.columns.isin([target])].

# Check if the target column is present in df_encoded
if target in df_encoded.columns:
    X = df_encoded[features]
    y = df_encoded[target] # Assuming 'target' variable is defin
else:
    # If the target column is not present, print an error message
    raise KeyError(f"Target column '{target}' not found in df_encc

# Assuming 'scaler' is your MinMaxScaler object from previous step
X = scaler.fit_transform(X) # Apply feature scaling to X

# Reshape input to be [samples, time steps, features] which is rec
X = X.reshape(X.shape[0], 1, X.shape[1])

# Split data into train, validation, and test sets
from sklearn.model_selection import train_test_split # Make sure t
X_train, X_temp, y_train, y_temp = train_test_split(X, y, test_siz
X_val, X_test, y_val, y_test = train_test_split(X_temp, y_temp, te

```

➡️ 🔎 Categorical columns: ['school', 'sex', 'age', 'address', ''

13. Make Predictions from New Input

```

# ... previous code ...

# Instead of loading from a file, use the existing 'scaler' object
# scaler = joblib.load('minmax_scaler.pkl') # Comment out this li
# Since 'scaler' is already a MinMaxScaler object (from Global Var
# you can directly use it.

# ... rest of your code ...

```

14. Convert to DataFrame and Encode

```

# -----
# STEP 1: IMPORT LIBRARIES
# -----
import pandas as pd
from sklearn.preprocessing import MinMaxScaler
import os # Import the os module

# -----
# STEP 2: CONVERT NEW INPUT TO DATAFRAME

```

```
# -----
# Example: assume new raw data as a dictionary
new_input = {
    'Date': ['2025-05-09'],
    'Open': [152.45],
    'High': [155.00],
    'Low': [150.80],
    'Close': [154.20],
    'Volume': [2_000_000],
    'Ticker': ['AAPL'],           # Example categorical column
    'Sector': ['Technology']     # Example categorical column
}

df_new = pd.DataFrame(new_input)
df_new['Date'] = pd.to_datetime(df_new['Date'])
df_new.set_index('Date', inplace=True)

# -----
```

15. Predict the Final Grade

```
# Instead of:
# model = load_model('your_model.h5') # Load trained model

# First, you need to train your model and save it.
# If you have already trained it in another notebook or session,
# you'll need to upload the 'your_model.h5' file to the current environment

# Assuming you've trained the model and saved it as 'my_model.h5':
# If you have the trained model file, upload it to the current environment
from google.colab import files
uploaded = files.upload() # Upload 'my_model.h5'

# Then load the model:
from tensorflow.keras.models import load_model

# Check if the model file was uploaded successfully
if 'my_model.h5' in uploaded:
    model = load_model('my_model.h5') # Load trained model
else:
    print("Error: 'my_model.h5' not found in uploaded files. Please check the file name or upload again")
    # You might want to stop execution here to avoid further errors
    # import sys
    # sys.exit(1)
```

 Choose files student-dataset.csv
 • **student-dataset.csv**(text/csv) - 56993 bytes, last modified: 08/05/2025 -
 100% done
 Saving student-dataset.csv to student-dataset / 21.000000000000001 MB

16. Deployment-Building an Interactive App

```
pip install streamlit
```

Collecting streamlit

```
  Downloading streamlit-1.45.0-py3-none-any.whl.metadata (8.9
Requirement already satisfied: altair<6,>=4.0 in /usr/local/li
Requirement already satisfied: blinker<2,>=1.5.0 in /usr/local/
Requirement already satisfied: cachetools<6,>=4.0 in /usr/local/
Requirement already satisfied: click<9,>=7.0 in /usr/local/lib
Requirement already satisfied: numpy<3,>=1.23 in /usr/local/lib
Requirement already satisfied: packaging<25,>=20 in /usr/local/
Requirement already satisfied: pandas<3,>=1.4.0 in /usr/local/
Requirement already satisfied: pillow<12,>=7.1.0 in /usr/local/
Requirement already satisfied: protobuf<7,>=3.20 in /usr/local/
Requirement already satisfied: pyarrow>=7.0 in /usr/local/lib
Requirement already satisfied: requests<3,>=2.27 in /usr/local/
Requirement already satisfied: tenacity<10,>=8.1.0 in /usr/local/
Requirement already satisfied: toml<2,>=0.10.1 in /usr/local/
Requirement already satisfied: typing-extensions<5,>=4.4.0 in
Collecting watchdog<7,>=2.1.5 (from streamlit)
  Downloading watchdog-6.0.0-py3-none-manylinux2014_x86_64.whl [ 44.3/44.3 KB 1.1
```

```
Requirement already satisfied: gitpython!=3.1.19,<4,>=3.0.7 in
Collecting pydeck<1,>=0.8.0b4 (from streamlit)
```

```
  Downloading pydeck-0.9.1-py2.py3-none-any.whl.metadata (4.1
Requirement already satisfied: tornado<7,>=6.0.3 in /usr/local/
Requirement already satisfied: jinja2 in /usr/local/lib/python
Requirement already satisfied: jsonschema>=3.0 in /usr/local/
Requirement already satisfied: narwhals>=1.14.2 in /usr/local/
Requirement already satisfied: gitdb<5,>=4.0.1 in /usr/local/
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib
Requirement already satisfied: charset-normalizer<4,>=2 in /us
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/loc
Requirement already satisfied: certifi>=2017.4.17 in /usr/loc
Requirement already satisfied: smmap<6,>=3.0.1 in /usr/local/l
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/
Requirement already satisfied: attrs>=22.2.0 in /usr/local/lib
Requirement already satisfied: jsonschema-specifications>=2023
Requirement already satisfied: referencing>=0.28.4 in /usr/loc
Requirement already satisfied: rpds-py>=0.7.1 in /usr/local/lib
Requirement already satisfied: six>=1.5 in /usr/local/lib/python
  Downloading streamlit-1.45.0-py3-none-any.whl (9.9 MB) [ 9.9/9.9 MB 45.1 MB]
```

```
  Downloading pydeck-0.9.1-py2.py3-none-any.whl (6.9 MB) [ 6.9/6.9 MB 42.2 MB]
```

```
  Downloading watchdog-6.0.0-py3-none-manylinux2014_x86_64.whl [ 79.1/79.1 KB 5.0 MB]
```

```
Installing collected packages: watchdog, pydeck, streamlit
```

```
Successfully installed pydeck-0.9.1 streamlit-1.45.0 watchdog-
```



```
import streamlit as st
import pandas as pd
import numpy as np
from tensorflow.keras.models import load_model
import joblib
import matplotlib.pyplot as plt
import os # Import the os module

# -----
# SETUP
# -----
st.set_page_config(page_title="AI Stock Predictor", layout="centered")
```

```
st.title("AI-Driven Stock Price Predictor")
st.markdown("Crack the market code with LSTM-powered time series fo

# -----
# LOAD MODEL AND SCALER
# -----
@st.cache_resource
def load_artifacts():
    # Check if the model file exists before loading
    if os.path.exists("my_model.h5"): # Replace 'my_model.h5' with
        model = load_model("my_model.h5") # Your trained LSTM mode
    else:
        st.error("Error: Model file 'my_model.h5' not found. Please
        return None, None # Return None if model loading fails

    # Check if the scaler file exists before loading
    if os.path.exists("minmax_scaler.pkl"): # Replace 'minmax_sca
        scaler = joblib.load("minmax_scaler.pkl") # Trained scal
    else:
        st.error("Error: Scaler file 'minmax_scaler.pkl' not found.
        return None, None # Return None if scaler loading fails

    return model, scaler

model, scaler = load_artifacts()

# Check if model and scaler were loaded successfully
if model is not None and scaler is not None:
    # -----
    # UPLOAD USER FILE
    # -----
    uploaded_file = st.file_uploader("Upload latest stock data (CSV

if uploaded_file:
    df = pd.read_csv(uploaded_file)

    # Data preview
    st.subheader("Preview Uploaded Data")
    st.write(df.tail())

    # Ensure 'Close' column exists
    if 'Close' not in df.columns:
        st.error("CSV must contain a 'Close' column.")
    else:
        # Scale 'Close' column
        df_close = df[['Close']]
        scaled_data = scaler.transform(df_close)

        # Use last 60 time steps
        if len(scaled_data) < 60:
            st.error("Not enough data. Please upload at least 60 da
        else:
            last_60 = scaled_data[-60:]
            X_input = last_60.reshape(1, 60, 1)

            # Make prediction
            prediction_scaled = model.predict(X_input)
            predicted_price = scaler.inverse_transform(prediction_scaled)

            # Display result
            st.write(f"Predicted Stock Price: {predicted_price[0]}")
```

```
st.success(f"📈 Predicted Closing Price: **${predicted_price}**")  
  
# Plot  
st.subheader("📊 Closing Price - Last 60 Days")  
plt.figure(figsize=(10, 4))  
plt.plot(df_close[-60:].values, label="Historical Closin  
plt.axhline(predicted_price, color='red', linestyle='solid')  
plt.legend()  
st.pyplot(plt)  
  
else:  
    st.error("Error: Could not load model or scaler. Please check th
```

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Enter a prompt here (+) 

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Gemini can make mistakes, so double-check responses and use code with caution. [Learn more](#)