1) import yfinance as yf

import requests

from bs4 import BeautifulSoup

import pandas as pd

import matplotlib.pyplot as plt

2) # Stock data extraction

ticker\_symbol = "TSLA"

ticker = yf.Ticker(ticker\_symbol)

start\_date = "2023-01-01"

end\_date = "2023-05-26"

stock\_data = ticker.history(start=start\_date, end=end\_date)

# Revenue data extraction

url = "https://finance.yahoo.com/quote/TSLA/financials?p=TSLA"

response = requests.get(url)

html\_content = response.content

soup = BeautifulSoup(html\_content, "html.parser")

# Extract revenue data using web scraping techniques

# ...

# Perform data processing and visualization

# ...

3) # Data processing and visualization

fig, (ax1, ax2) = plt.subplots(2, 1, figsize=(10, 8))

# Plot stock data

ax1.plot(stock\_data.index, stock\_data["Close"], label="Stock Price")

ax1.set\_title("Tesla Stock Price")

ax1.set\_ylabel("Price (USD)")

ax1.legend()

# Plot revenue data

ax2.plot(revenue\_data, label="Revenue")

ax2.set\_title("Tesla Revenue")

ax2.set\_ylabel("Revenue (Millions)")

ax2.legend()

# Adjust layout and display the plot

plt.tight\_layout()

plt.show()