

Data-Driven Stock Analysis

Python DataFrame for Key Metrics:

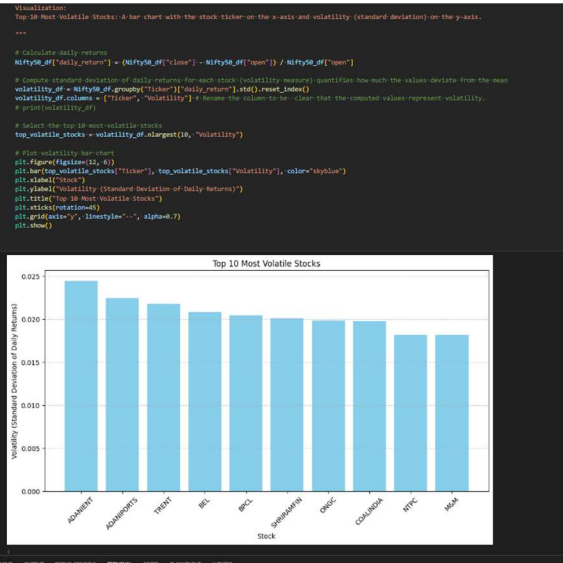
```
print("\n📊 Market Summary:")
print(market_summary)

✅ Top 10 Green Stocks:
  Ticker  yearly_return
0  POWERGRID  0.001258
1  BAJAJ-AUTO  0.001083
2  TRENT  0.000948
3  HSW  0.000745
4  BHARTIARTL  0.000652
5  ICICIBANK  0.000613
6  HDFCBANK  0.000487
7  INFY  0.000460
8  ETCHERMOT  0.000445
9  SUNPHARMA  0.000207

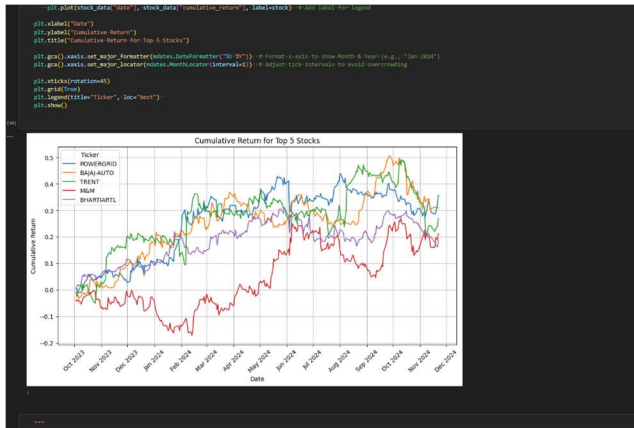
❌ Top 10 Loss Stocks:
  Ticker  yearly_return
0  INDUSINDBK  -0.002772
1  TATASTEEL  -0.002760
2  ADANIENT  -0.002720
3  TATAMOTORS  -0.002492
4  ONGC  -0.002364
5  COALINDIA  -0.002088
6  BAJFINANCE  -0.001972
7  NTPC  -0.001915
8  HINDALCO  -0.001883
9  ADANIports  -0.001834

📋 Market Summary:
{'Green Stocks Count': 6544, 'Red Stocks Count': 7628, 'Average Close Price': 150.45}
```

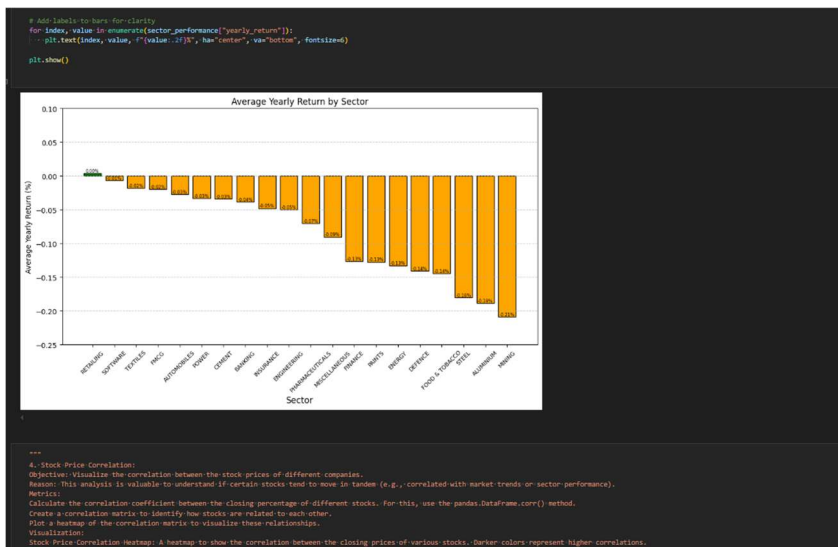
1. Volatility Analysis:



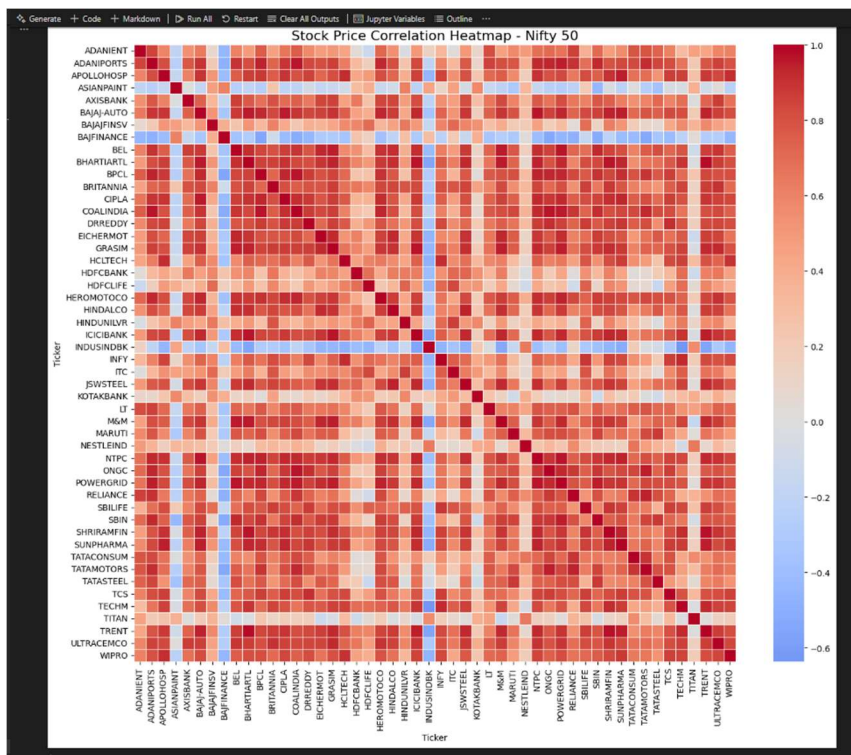
2. Cumulative Return Over Time:



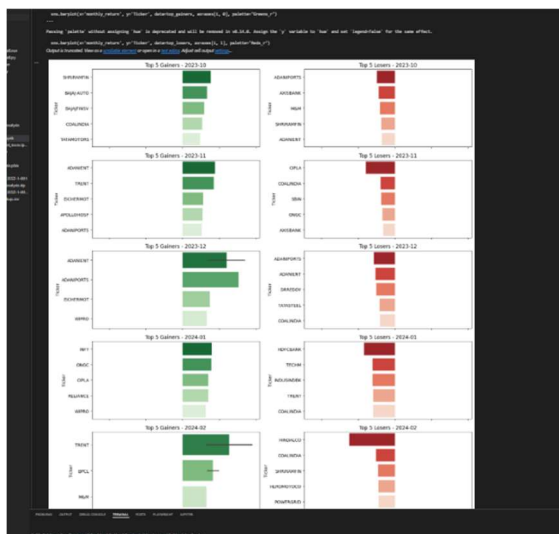
3. Sector-wise Performance:



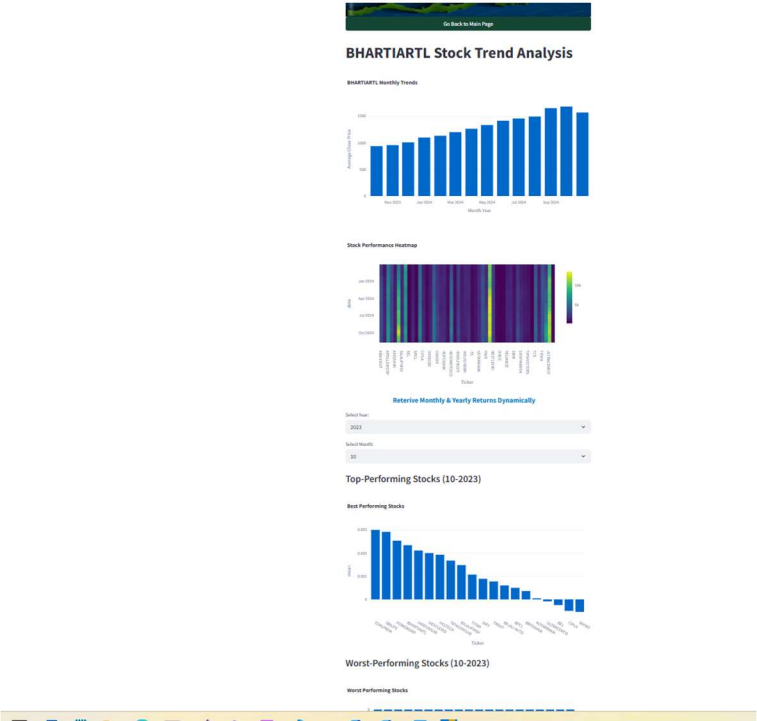
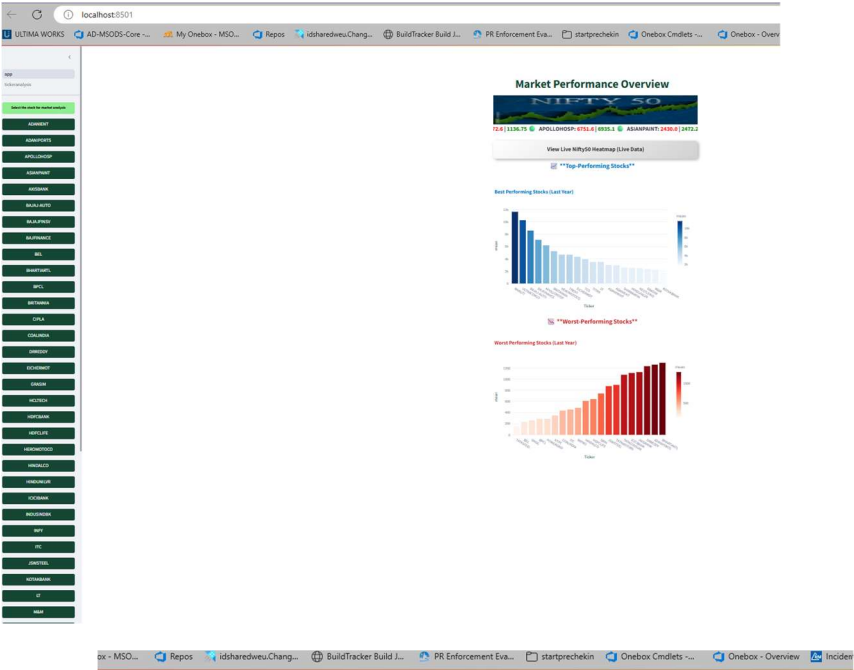
4. Stock Price Correlation:



5. Top 5 Gainers and Losers (Month-wise):



Streamlit



PowerBi- Interactive Published dashboard

