



Stock Price and Revenue **Analysis** for Tesla and GameStop

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Description: In this project, I developed a comprehensive data analysis tool to visualize and compare the historical stock prices and revenue data for two prominent companies: Tesla (TSLA) and GameStop (GME). Utilizing Python libraries such as yfinance, pandas, and BeautifulSoup, I gathered and processed financial data to create insightful visualizations.

Key Features:

Data Acquisition: Employed the yfinance library to retrieve historical stock price data for Tesla and GameStop. Additionally, I scraped revenue data from online sources using BeautifulSoup, ensuring accurate and up-to-date financial information.

Data Cleaning and Preparation: Processed the scraped revenue data by removing unnecessary characters and handling missing values, resulting in a clean dataset ready for analysis.

Interactive Visualizations: Created interactive plots using Plotly to visualize the historical share prices and revenue for both companies. The visualizations include dual subplots that allow for easy comparison of stock performance against revenue trends over time.

User -Friendly Interface: The project outputs dynamic graphs that can be embedded in web applications or Jupyter notebooks, enhancing the user experience and making the data easily interpretable.

Technical Implementation:

Data Retrieval: Utilized yfinance to fetch stock data and requests to obtain revenue data from specified URLs.

Data Processing: Cleaned and transformed the revenue data into a structured format using pandas, ensuring compatibility with the visualization tools.

Visualization: Implemented Plotly to create visually appealing and graphs that display the relationship between stock prices and revenue, facilitating better insights into the companies' financial performance.

By comparing Tesla and GameStop, I aimed to provide a clearer understanding of their financial trajectories, which is valuable for investors and analysts alike.