Stock Risk and Reward

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Goals

- Examine Automotive and Technology Sectors

- Use data from General Motors, Tesla and Ford to formulate an opinion of the Automotive Sector

- Use data from Apple, Microsoft, and Amazon to formulate an opinion of the Technology Sector

- Look at historical data to forecast the direction of each sector

Objectives

- Pull the prices of each stock

- See which Stocks are generating the most value among investors

- Which Sector is producing the largest returns

- Which sector is the most consistent/volatile

Libraries Used

- Numpy

- Pandas

- Hvplot

- Yahoo Finance

- Matplotlib

- Requests

- Datetime

- Requests

- Beautiful Soup

Automotive Stocks

- Look at the Price for TSLA, GM, and F

- Find the earnings per share (eps) for each stock

- Determine volatility and return on investment using the Sharpe Ratio

Tech Stocks

- Examine Amazon, Apple, and Microsoft price history

- Use Volatility and EPS to see which tech stock is the better investment.

- See how these tech stocks EPS compares to other popular technology stocks.

Conclusion

❏ Ford and General Motors are probably the safer investment with cost per share relatively low and with returns coming back positive

❏ Tesla which is the most volatile and most expensive, has either the biggest returns or the biggest loses.

❏ Apple and Microsoft provide the greatest return

❏ Dell would be a better candidate for a tech portfolio than Amazon.