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Note: Please complete all columns, specially the last two columns. Thank You.

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| Day of week | Time of Day  From - To | Description of Activity | Individual or Group? | Duration |
| Monday | 2 pm – 6 pm | Downloaded NASDAQ and S&P 500 datasets and cleaned NA values using R. Created return\_df combining Apple, NASDAQ, and S&P 500. | Individual | 4 hours |
| Tuesday | 2pm – 5pm | Calculated beta values for Apple compared to NASDAQ and S&P 500. Wrote R code to automate beta calculation. | Individual | 3 hours |
| Wednesday | 11pm – 2am | Calculated and interpreted beta values for Microsoft, Google, and Nvidia against market indexes. Cleaned and merged returns. | Individual | 3 hours |
| Thursday | 9am - 1pm | Created line charts for beta trends across all 4 companies and visualized movement relative to NASDAQ and S&P 500 in R. | Individual | 4 hours |
| Friday | 8 pm – 12am | Built Tableau dashboards comparing beta trends of each company with NASDAQ and S&P 500. Styled layout and added filters. | Individual | 4 hours |
| Saturday | 10 am – 1pm | Analyzed findings from Tableau and graphs: discussed Nvidia’s high volatility, Microsoft and Apple’s stability, and Google’s independence. | Individual | 3 hours |
| Sunday | 11am – 3pm | Compiled Week 3 report, added graphs and narrative explanation of beta values. Uploaded to GitHub and reflected on key insights. | Individual | 4 hours |

1. Comments:

This week, I explored beta analysis to measure how each big tech stock moves in relation to the NASDAQ and S&P 500. I found it fascinating to see how Nvidia’s high beta reflects its volatility, while Apple and Microsoft align closely with market trends. I also enjoyed building Tableau dashboards to visualize how beta changes over time, which helped me clearly identify the stability or sensitivity of each stock.

1. External Help:

I used ChatGPT to help me understand the meaning of beta values and how to interpret them in relation to market indices. I also received guidance on structuring the R code for cleaning data and automating beta calculations.

1. Please list the link of any external materials you have used to assist you with your course project. This could be Youtube link, LinkedIn links, etc.
2. [**https://www.investopedia.com/terms/b/beta.asp**](https://www.investopedia.com/terms/b/beta.asp)
3. [**https://www.nasdaq.com/**](https://www.nasdaq.com/)
4. [**https://finance.yahoo.com/**](https://finance.yahoo.com/)
5. What were your contributions to the course project?

This week, I worked on comparing the beta values of Apple, Microsoft, Google, and Nvidia to the NASDAQ and S&P 500. I cleaned the data, calculated the beta using R, and created line charts to see how each company moves with the market. I also built Tableau dashboards to show these trends clearly. Finally, I wrote a report, uploaded everything to GitHub, and explained what the results mean for investors.