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Note: Please complete all columns, especially 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 | Extracted past and current Finviz articles on IMUNON Inc. Summarized stock activity, financial terms, and article highlights. | Individual | 4 hours |
| Tuesday | 2 pm – 5 pm | Structured article summaries using fields like title, date, content, and financial keywords. Tagged relevant economic terms. | Individual | 3 hours |
| Wednesday | 8 pm – 11:30 pm | Created a keyword dictionary in R using tibble. Grouped words into Past/Current and added article-based proof for each. | Individual | 3.5 hours |
| Thursday | 9 am – 12:30 pm | Tested dictionary with str\_detect() on the IMUNON news sample. Interpreted results and reviewed keyword matches. | Individual | 3.5 hours |
| Friday | 7 pm – 10 pm | Correlated 179% price increase with key financial language like 'confidence' and 'private placement.' | Individual | 3 hours |
| Saturday | 11 am – 2:30 pm | Manually extracted sentiment terms from the article and matched with IMUNON’s price movement timeline. | Individual | 3.5 hours |
| Sunday | 10 am – 2:30 pm | Wrote Week 4 report and reflected on sentiment analysis process: reviewed flowchart and planned future automation. | Individual | 4.5 hours |

1. **Comments:**

This week, I focused on sentiment-based analysis of IMUNON Inc.'s market behavior using Finviz news. I created a keyword dictionary and matched it to real stock price outcomes. It was interesting to see how news terms like 'efficacy' or 'private placement' directly reflected investor behavior and stock spikes—this week helped me better connect news language with financial reaction.

1. **External Help:**  
   I used ChatGPT to understand how to structure the keyword dictionary and apply regex detection. I also used Finviz and Yahoo Finance to access recent and past news articles.
2. **Please list the link to any external materials you have used to assist you with your course project. This could be a YouTube link, a LinkedIn link, etc.**

[**https://www.investopedia.com/terms/b/beta.asp**](https://www.investopedia.com/terms/b/beta.asp)

[**https://www.nasdaq.com/**](https://www.nasdaq.com/)

[**https://finance.yahoo.com/**](https://finance.yahoo.com/)

1. **What were your contributions to the course project?**

This week, I completed the first sentiment-based correlation task by building a dictionary of keywords using R. I connected article content with price changes, created a clean record of IMUNON’s stock response to news, and wrote the full analysis for Week 4. I also reviewed the flowchart for future data automation.