



GitHub Repository

STA3100 Final Project Report
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Abstract

Introduction

Our App

Conclusion

Contribution Statement

For this project, Elle and Ananya both collaborated on writing the code and designing the user interface. They used GitHub to keep track of changes and allow for easy access. During the development of the project, Ananya and Elle would meet in-person to work on the project, which allowed for easy communication and helped each other write each part of the code. This enabled both to gain experience with writing in R Shiny and figuring the logic behind the functions.

References

- Allaire, J., Xie, Y., Dervieux, C., McPherson, J., Luraschi, J., Ushey, K., Atkins, A., Wickham, H., Cheng, J., Chang, W., & Iannone, R. (2023). *Rmarkdown: Dynamic documents for r*. <https://github.com/rstudio/rmarkdown>
- Bache, S. M., & Wickham, H. (2022). *Magrittr: A forward-pipe operator for r*.
- Bryan, J. (2023). *googlesheets4: Access google sheets using the sheets API V4*.
- Chang, W., Cheng, J., Allaire, J., Sievert, C., Schloerke, B., Xie, Y., Allen, J., McPherson, J., Dipert, A., & Borges, B. (2024). *Shiny: Web application framework for r*. <https://shiny.posit.co/>
- Grolemund, G., & Wickham, H. (2011). Dates and times made easy with lubridate. *Journal of Statistical Software*, 40(3), 1–25. <https://www.jstatsoft.org/v40/i03/>
- R Core Team. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. <https://www.R-project.org/>
- RStudio Team. (2020). *RStudio: Integrated development environment for r*. RStudio, PBC. <http://www.rstudio.com/>
- Sievert, C., Cheng, J., & Aden-Buie, G. (2024). *Bslib: Custom 'bootstrap' 'sass' themes for 'shiny' and 'rmarkdown'*. <https://rstudio.github.io/bslib/>
- Tang, Y. (2022). *Shinyjqui: 'jQuery UI' interactions and effects for shiny*.
- Wickham, H. (2016). *ggplot2: Elegant graphics for data analysis*. Springer-Verlag New York. <https://ggplot2.tidyverse.org>
- Wickham, H. (2023a). *Stringr: Simple, consistent wrappers for common string operations*. <https://stringr.tidyverse.org>
- Wickham, H. (2023b). *Tidyverse: Easily install and load the tidyverse*. <https://tidyverse.tidyverse.org>
- Wickham, H., FranC'ois, R., Henry, L., MC<ller, K., & Vaughan, D. (2023). *Dplyr: A grammar of data manipulation*. <https://dplyr.tidyverse.org>
- Xie, Y. (2023a). *Knitr: A general-purpose package for dynamic report generation in r*. <https://yihui.org/knitr/>
- Xie, Y. (2023b). *Tinytex: Helper functions to install and maintain TeX live, and compile LaTeX documents*. <https://github.com/rstudio/tinytex>
- Xie, Y. (2024). *Bookdown: Authoring books and technical documents with r markdown*. <https://github.com/rstudio/bookdown>