UNIVERSITY OF WOLLONGONG AUSTRALIA

School of Mathematics & Applied Statistics

DSAA811: Data Analytics and Visualisation

Preliminary Report

Friday 28th March 2025 to Friday 11th April 2025

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DECLARATION

No part of this Assignment has been copied from anyone else, and I have not lent any part of it to anyone else. No part of this assignment has been written by generative AI.

Sharon Van Den Berg (9251936)

Tuesday 1st April, 2025

Date

Abstract

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Contents

Introduction

This is the introduction file

This is the intro Hubmann et al. (2018) Different one (Hubmann et al. 2018)

Background

Research questions and aims of the project

Rationale

Data Description

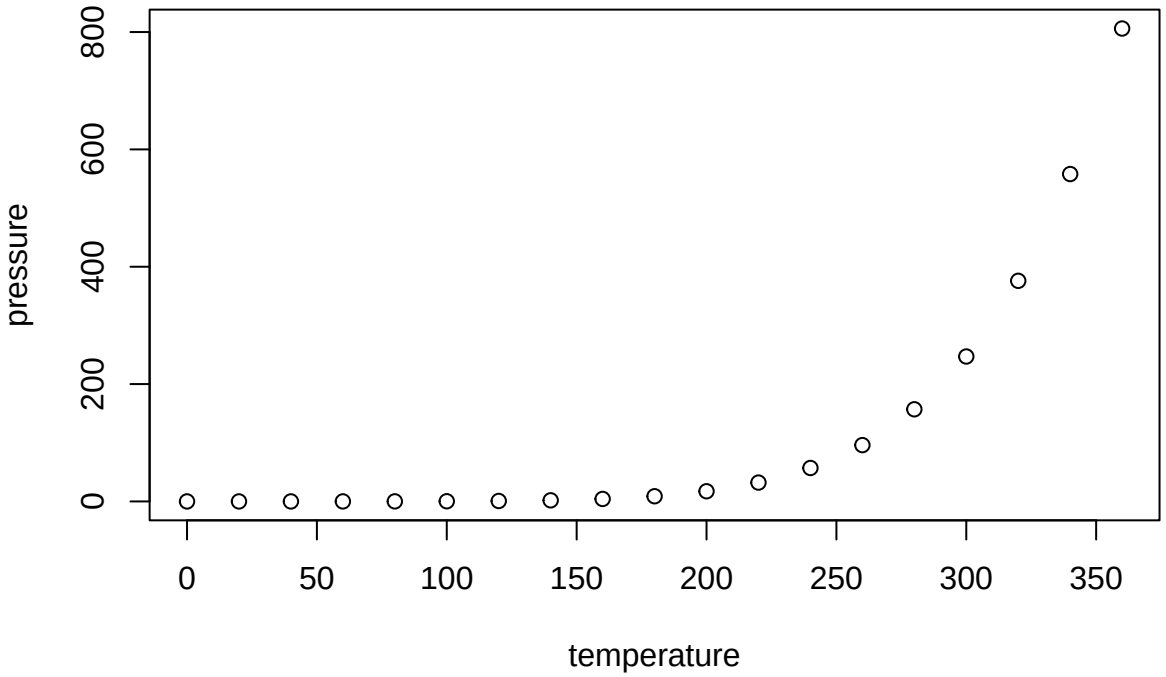
Exploritory data analysis

Conclusion

For more details on using R Markdown see http://rmarkdown.rstudio.com.

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```


pressure
0
200
400
600
800
0
50
100
150
200
250
300
350
temperature

#Session Information

```
sessionInfo()
```

```
## R version 4.3.2 (2023-10-31 ucrt)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 11 x64 (build 26100)
##
## Matrix products: default
##
##
## locale:
## [1] LC_COLLATE=English_Australia.utf8  LC_CTYPE=English_Australia.utf8
## [3] LC_MONETARY=English_Australia.utf8 LC_NUMERIC=C
## [5] LC_TIME=English_Australia.utf8
##
## time zone: Australia/Sydney
## tzcode source: internal
##
## attached base packages:
## [1] stats     graphics  grDevices utils     datasets  methods   base
##
## other attached packages:
##  [1] lubridate_1.9.4 forcats_1.0.0   stringr_1.5.1   dplyr_1.1.4
##  [5] purrr_1.0.4     readr_2.1.5     tidyr_1.3.1     tibble_3.2.1
##  [9] ggplot2_3.5.1   tidyverse_2.0.0 tinytex_0.56    knitr_1.50
##
## loaded via a namespace (and not attached):
##  [1] gtable_0.3.6      compiler_4.3.2    tidyselect_1.2.1  scales_1.3.0
##  [5] yaml_2.3.10       fastmap_1.2.0     R6_2.6.1          generics_0.1.3
##  [9] munsell_0.5.1     rprojroot_2.0.4   pillar_1.10.1     tzdb_0.5.0
## [13] rlang_1.1.5       stringi_1.8.7     xfun_0.51         timechange_0.3.0
## [17] cli_3.6.2         withr_3.0.2       magrittr_2.0.3    digest_0.6.37
## [21] grid_4.3.2        rstudioapi_0.17.1 hms_1.1.3         lifecycle_1.0.4
## [25] vctrs_0.6.5       evaluate_1.0.3    glue_1.8.0        colorspace_2.1-1
## [29] rmarkdown_2.29    tools_4.3.2       pkgconfig_2.0.3   htmltools_0.5.8.1
```

Bibliography

Hubmann, Constantin, Jens Schulz, Marvin Becker, Daniel Althoff, Christoph Stiller, and IEEE Senior Member. 2018. "Automated Driving in Uncertain Environments: Planning with Interaction and Uncertain Maneuver Prediction." *IEEE Transactions on Intelligent Vehicles* 3 (January): 5–17. https://doi.org/10.1109/tiv.2017.2788208.