*Please delete all the cursive text before submission. It is here just for your reference*.

*Further: data set – DS, research question – RQ*

*The mark (****x words****) after each subchapter states the word count limit. This indicates the expected amount of information which you can exceed by 10% without losing the mark.*

7COM1079-0901-2024 - Team Research and Development Project

Final report title: (*the topic of your research.)*

Group ID: A117

Dataset number:

Prepared by: *[Name and ID of submitting student first],*

*[Name and ID of other group members]*

***Please make sure*** *the document spelled correctly (including image labels, section headings, and table of contents). Please use correct punctuation.*

*Make sure your report is grammatically correct.*

University of Hertfordshire

Hatfield, 2024

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1. Introduction
   1. Problem statement and research motivation
   2. The data set
   3. Research question
   4. Null hypothesis and alternative hypothesis (H0/H1)

1. Background research
   1. Research papers (at least 3 relevant to your topic / DS)
   2. Why RQ is of interest (research gap and future directions according to the literature)

1. Visualisation
   1. Appropriate plot for the RQ *output of an R script (NOT a screenshot)*
   2. Additional information relating to understanding the data (optional)
   3. Useful information for the data understanding

1. Analysis
   1. Statistical test used to test the hypotheses and output
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1. Reference list

Harvard (author, date) format.

1. Appendices
2. R code used for analysis and visualisation.
3. GitHub log output.

*The list below outlines the chapter/subchapter numbers, names, word count limits, and explanations of what to write in each section.*

1. Introduction

* 1. Problem statement and research motivation **(100 words)**
* *What is the problem in the area we want to learn more about (motivation for study).*
* *Use at least one citation from related literature for top marks.*
  1. The data set **(75 words)**
  2. Research question **(50 words).** *Explain how you are going to answer your RQ.* **(50 words)**
  3. Null hypothesis and alternative hypothesis (H0/H1) **(100 words)**

1. Background research
   1. Research papers (at least 3 relevant to your topic / DS) **(200 words)**

* *Was the data set used for some research papers?* *Reference at least 3 relevant research papers to your topic / DS.*
  1. Why RQ is of interest (research gap and future directions according to the literature) **(100 word**s)

1. Visualisation
   1. Appropriate plot for the RQ *output of an R script (NOT a screenshot)* (**50 words)**

* *Explain the choice of the plot.*
* *Anything on the plot from R is not counted towards word count limit*
* *Make sure that the plot is from output of an R script (NOT a screenshot)*
* *Make sure that the plot has a caption or title, X and Y-axis labels, legend if appropriate and units.*
* *Make sure the title or caption and axis labels are informative.*
  1. Additional information relating to understanding the data (optional) (**50 words)**
* *Per plot: explain the purpose and insights.*
  1. Useful information for the data understanding (**50 words)**
* *Summarise key observations from the plot.*

1. Analysis
   1. Statistical test used to test the hypotheses and output (**75 words)**

* *Explain the choice of the test.*
* *Make sure the test is appropriate for the RQ and data.*
  1. The null hypothesis is rejected /not rejected based on the p-value (**100 words)** *(interpret the results)*

1. Evaluation – group’s experience at 7COM1079
   1. What went well **(75 words)**
   2. Points for improvement **(75 words)**
   3. Group’s time management (**50 words)**
   4. Project’s overall judgement (**50 words)**
   5. Note any changes to group since submission of Assignment 1. Add new or amended GitHub Ids for new members **(75 words, write only if applies to your group arrangements)**
   6. Comment on the GitHub log output **(50 words)**

*Please comment on the GitHub log output, and refer to it as being placed into**Appendix B.*

*From your Git log, select the three most significant commits during this project and include the following for each:*

1. ***Commit Message:*** *[Insert Commit Message] Brief explanation of the broader impact of the change*
2. ***Commit Message:*** *[Insert Commit Message] Brief explanation of the broader impact of the change*
3. ***Commit Message:*** *[Insert Commit Message] Brief explanation of the broader impact of the change*

1. Conclusions
   1. Results explained (**75 words)**
   2. Interpretation of the results (**75 words)**

* *Interpretation of what the results mean in terms of your RQ and the effect this may have on your population and the wider context of your topic.*
  1. Reasons and/or implications for future work, limitations of your study (**50 words)**

1. Reference list ***(not included in the work count)***

Harvard (author, date) format.

1. Appendices
2. R code used for analysis and visualisation ***(not included in the word count)***

Analysis.R code with the appropriate statistics to test the hypotheses.

* ***No word count****, but ensure the code is without redundant lines, well-commented and produces the correct output.*
* *Make sure it runs (look in Rscript.log for output from a statistical test)*
* *It should compute appropriate statistics to test the hypotheses*

1. GitHub log output.