Report Details

Structure

The final report documents the progress that your group has made on the allocated project. The report should outline

- the background to the project,
- the nature of the data that you have been working with,
- the data preparation and exploratory data analysis,
- any modelling of the data
- and your conclusions in relation to the original problem.

Your project may not necessarily conform to this plan, that should be made clear in the report. For example, your project may have been focussed on data wrangling, with no modelling component. The report should include as an appendix the computer code used to load, manipulate, analyse and model the data, including the generation of figures.

The main body of you report should be prepared by your group and be a well written report of **approximately ten pages.** Only include figures which are significant in demonstrating a particular aspect of your project.

The report should detail the following:

- The active members of your group and a brief summary of the contribution to the project and writing of the report.
- A brief description of your project and details of the supplied data. (1-2 pages)
- Details of any preprocessing that was required prior to loading the data into Python. (1-2 pages)
- Details of the processing and manipulation of data in Python. (1-2 pages)
- A summary of the exploratory data analysis that was undertaken and any significant conclusions that were obtained from this analysis. (1-2 pages)
- A summary of any modelling that was undertaken and any significant conclusions that were obtained from this analysis. Where possible do not treat models as black boxes, but endeavour to explain succinctly how the model works. (1-2 pages)
- Your conclusions in relation to the original problem. (0.5-1 page)
- A reference list (if needed). Not included in the page count.
- An Appendix with your complete Python code for the analysis. Not included in the page count.

Submit as **pdf or .pynb** to Moodle by Sunday **May 28th 23:55.**

Marking

Presentation (20%)

Report should be well written and have a logical structure. Writing is clear, concise and free from spelling and grammatical errors. References, where used, are cited correctly, and figures have clear, informative titles and are discussed appropriately in the text.

Background (20%)

Report demonstrates a sound understanding of the context of the project and clearly describes the form of the data.

Data Manipulation and Modelling (50%)

This clearly is dependent on the size of the group. The group has undertaken background research to learn appropriate techniques in Python, Pandas or other appropriate software to analyse the data for this problem. They have applied these techniques appropriately to their problem to generate insightful results. All active members have contributed to these results in some manner.

The included code is well set out and commented, and is a sensible approach.

Conclusions (10%)

The conclusions obtained from the data analysis and/or modelling have been related to the original problem, and have provided some insight into this problem. Suggestions for further data science approaches are proposed.