STATS 780/CSE 780, Winter 2021

PROJECT

Project Report and Presentation (talk) due by 10.00am on Wednesday, **April 7th**.

Submissions up to 24 hours late will incur a 25% penalty.
Submissions more than 24 hours late will not be accepted.

Task 1.

Choose a publicly and freely available multivariate data set that you think would be suitable as a topic of a detailed analysis. Using the methods covered in this course, carry out a thorough analysis of this data set. Prepare and submit a report, subject to the Report Standards specified below. This report will be worth 45/50 marks available for the project. The tentative marking scheme for the report is as follows:

- Description of data including source, details on variables, relationships between variables, descriptive analyses, etc. [10 marks]
- Description of the problem being addressed. [4 marks]
- Description of the techniques used, including the rationale for the choice of parameters, etc. [10 marks]
- Descriptions of results, both in technical terms and in the context of the data. [12 marks]
- Conclusions, in the context of the data and the problem being addressed. [9 marks]

Note: If the data set used is not publicly and freely available, the grade will be zero.

Task 2.

Submit by email to sharonmc@mcmaster.ca , a PDF file containing at most **15 slides** for a (strictly) 5 minute presentation of your work. Then, present the material in class on Friday, April 9th. The order of presenters will be decided by the instructor. This presentation, including your adherence to the time limit, will be worth 5/50 marks available for the project.

Report Standards

- LaTeX is strongly recommended.
- Reports must be submitted to the link sent to you using Crowdmark. Please also **email a copy to sharonmc@mcmaster.ca** . Files must be PDF.
- **Twelve-point font** (times or similar) must be used with 1.5 line spacing and margins of at least 1 inch all around.
- Your report may not exceed **fifteen (15) pages**, inclusive of tables, figures, and bibliography, but not including one title page.
- The writing and referencing should be appropriate to the graduate level.
- **All R code used should be emailed to sharonmc@mcmaster.ca** as a self-contained `.R` file before 10.00am on Wednesday, **April 7th**. Do not reproduce R code or output in your written report.
- Various tools, including publicly available internet tools, may be used by the instructor to check the originality of submitted work.
