Final Project Rubric

PPOL670 – Introduction to Data Science

Spring 2020

Student:		 	
Project Name:		 	
Total Score:	_ / 45		

Project Materials

- Report was posted on Canvas on time? (1 point)
 - .Rmd file and all figures were included with the submission?
- Report was generated using R? (1 point)
- Student provided access to the data (1 point)
 - Via Dropbox link (if greater than a Gigabyte)
 - Via Canvas (if less than a Gigabyte)

Document Presentation

- Student used professional looking visualizations in the report:
 - Figures were easy to read and understand? (1 point)
 - Figures made sense within the context of the report? (1 point)
 - Student described the purpose and the insight drawn from the figure in the text? (1 point)
 - Color scheme made sense; easy to differentiate between colored items (1 point)
 - Figures were appropriately proportioned (1 point)
- Student used R Markdown for a professional looking report:
 - Report was rendered without errors or warnings. (1 point)
 - No R code was visible in the report. (1 point)
 - Report contained a table of contents. (1 point)
 - Report contained no (or few) gramatical/spelling errors. (1 point)
 - Report reads as a single cohesive document. (1 point)
 - Report is 12 pages in length (double-spaced; 12 pt font). (1 point)
 - Student cited academic, data, and package sources. (1 point)
 - * To cite a package, use citation("package_name") to get a the citation information for a package, e.g. citation("ggplot2") will yield "H. Wickham. ggplot2: Elegant Graphics for Data Analysis. Springer-Verlag New York, 2016."
- [BONUS] Student used professional looking tables: (+ 2 points)

- When presenting data and/or figures, student formatted the data as a clean table (i.e. latex)?
 - * see stargazer package or gt
- Table made sense within the context of the report?
- Table was clear and easy to read.
- Table was concise and did not contain unnessary information.

Content

The student's project sufficiently addressed these general areas.

- Introduction (5 point)
 - Student clearly established the aim of the project.
 - Student offered a clear roadmap of the report (i.e what is covered in the report).
- Problem Statement and Background (5 point)
 - Student offered a clear and complete statement of the problem and/or aim of their analysis.
 - Student included a brief summary of any related work (i.e. a *light* literature review)
- Data (5 point)
 - Student outlined where their data came from.
 - Student clearly specified:
 - * the unit of observation;
 - * variables of interest;
 - * potential issues in the data (e.g. missingness, coverage, etc.)
 - Student articulate the steps they took to wrangle the data.
- Analysis (5 point)
 - Student described the methods/tools they explored in their project.
 - * Justified the tools/methods that they used.
 - * Adequately described what the tools/methods are doing.
 - * Note: "Assume the reader is smart but doesn't know R/Machine Learning well. That is, be crystal clear about what you're doing and why."
- Results (5 point)
 - Student gave a detailed summary of their results.
 - Student presented their results clearly and concisely.
 - Student used visualizations (and tables) whenever possible/appropriate.
- **Discussion** (5 point)
 - Student spoke on the "success" of their project (as defined in their proposal).
 - * "Did you achieve what you set out to do? If not why?"

- Student outlined the tools/methods they considered but ultimately did $\it not$ use in their final analysis.
- Student articulate how they would expand the analysis if given more time.