Final Project Rubric

PPOL670 – Introduction to Data Science

Spring 2020

Student:	
Project Name:	
Total Score: / 45	
 Project Materials Report was posted on Canvas? (1 point) .pdf rendered using RMarkdown. (1 point) .Rmd file containing all the code used to generate the analytics in the report. (1 Student provided access to the data (1 point) Via Dropbox link (if greater than a Gigabyte) Via Canvas (if less than a Gigabyte) 	l point)

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.