Final Project Rubric

PPOL670 – Introduction to Data Science

Spring 2021

Student:
Project Name:
Total Score: / 50
Project Materials
ℓ points
 Report was posted to Canvas as a .zip containing the following items: Report was rendered using RMarkdown as any one of the following file types: .pdf .html, .docx. File was titled lastname_firstname_final_report.pdf. (/1 point) .Rmd file containing all the code used to generate the analytics in the report. File was titled lastname_firstname_final_report.Rmd. (/1 point) Student included the data used in a Data/ folder. (/1 point) Student included an .Rproj. (/1 point)
Document Presentation
16 points
 Student used professional looking visualizations in the report: Figures were easy to 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) Figures referenced in the t ext are labeled, i.e. references to "figure 1" correspond to the figure title (e.g. "Figure 1: Title")? (/1 point) Figures labels/aves/text are readable? (/1 point)
 Figures labels/axes/text are readable? (/1 point) Color scheme made sense; easy to differentiate between colored items (/1 point) Figures were appropriately proportioned to the document? (/1 point)
 Student used R Markdown for a professional looking report: Report was rendered without errors or warnings. (/1 point) No code was visible in the report. (/1 point) No raw output was visible in the report. (/1 point)

 Report includes a title, author byline, and word count. (/1 point) Report is 12 pages in length (double-spaced; 12 pt font; if rendered as .pdf/.docx) or 3000 words.¹ (/1 point) Report contained no (or few) grammatical/spelling errors. (/1 point) Report reads as a single cohesive document. (/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: Elegan
Graphics for Data Analysis. Springer-Verlag New York, 2016."
Content
Points 30
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.

¹Note that your citations do not count against your word/page count.

- 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 articulate how they would expand the analysis if given more time.