Final Project Rubric

PPOL670 – Introduction to Data Science

Fall 2020

Student:
Project Name:
Total Score: / 51
Project Materials
$!\ points$
 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
7 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 include titles? (/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 and author byline. (/1 point) Report includes a word count. (/1 point) Report is 12 pages in length (double-spaced; 12 pt font) if rendered as .pdf/.docx (/1 point) Report contained no (or few) grammatical/spelling errors. (/1 point) Report reads as a single cohesive document. (/1 point) Report is 12 pages in length (double-spaced; 12 pt font; if rendered as .pdf/.docx) or 3000 words.¹ (/1 point) Student cited academic, data, and package sources. * 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."
Content	
Points 30	
The studer	nt's project sufficiently addressed these general areas.
• Intr	oduction (/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).
• Prol	blem 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	a (/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.
• Ana	lysis ($\/5$ 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 the crystal clear about what you're doing and why

• Results $(\underline{\hspace{1cm}}/5 \text{ point})$

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

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