Final Project Rubric

PPOL564 – Data Science 1 - Foundations

Fall 2021

Student:
Project Name:
Total Score : / 50
Project Materials
2 points
• Report was posted to Canvas as a .zip containing the following items:
 Report was rendered using a scripting language (RMarkdown, Latex, etc.) as any one of the following file types: .pdf/.docx. File was titled lastname_firstname_final_report.pdf (or whatever file the relevant file prefix). (/1 point) Student included the data used in a Data/ folder. (/1 point)
Project Code
2 points
 Student posted link (url) to their Github repository (corresponding to their project work progress) as a comment on Canvas with their project submission. (/1 point) Student used their Github repository for every deliverable (i.e. their first commit is on or before the first project deadline, and all work product was committed along the way). (/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 text 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 generated 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) 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)
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; * the outcome of interest and how it is measured; * predictor variables of interest (and why they were selected); * potential issues in the data (e.g. missingness, coverage, etc.)
- Student articulate the steps they took to wrangle the data.

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

- **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 programming/machine mearning 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.
 - Student highlighted some clear takeaways ("things learned") and theoretical implications ("potential hypotheses") from their analysis.
- **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.