

Project Report and Presentation

HTML report, due Wednesday, July 27th at 11:59 PM EST

This HTML report (produced from `RMarkdown`) will act as a public-facing document of your work. Though due on July 27th, this report will be made public for the broader public to see on July 28th. After that date, we will leave the reports publicly available unless you ask for the reports to be taken down after July 29th - if that's the case, we will make the report unavailable after July 29th.

HTML reports should contain the following sections:

1. *Introduction* - description of the main research questions and project motivation.
2. *Data* - description of the data you are working with, the necessary variables to understand that you worked with, and various transformations that were considered. Inclusion of relevant EDA-type visualizations could be included in this section (e.g., bar charts displaying frequencies of various categorical levels, histograms of continuous variable distributions, etc.).
3. *Methods* - overview of the methods considered for your analysis. This should *NOT* be an explicit explanation of how each method works (e.g., do *NOT* explain the math behind linear regression). Instead state the considered methods and motivate why they were used, why they were appropriate or more appropriate than other methods.
4. *Results* - overview of the main results! Think about constructing key visualizations (and maybe some tables) that display your results to *concisely* communicate your conclusions. It's easier to write the results after you come up with the key figures to include first. The main takeaways of your work should be clearly stated in this section.
5. *Discussion* - restate the conclusions from your *Results* section but then discuss limitations and **next steps for future work**.
6. *Acknowledgements* - finally end with any acknowledgements you think are appropriate (e.g., thank your external mentors and project advisors).
7. *References* - while these are not formal papers, feel free to include a section at the end with appropriate references that were cited in the report that you think are relevant for readers (don't cite everything for these HTML reports).

Because these are not formal papers, try to focus on just writing short paragraphs and use bulleted lists.

Presentations on Friday, July 29th

Presentations should be 20-23 minutes, with 7-10 minutes for follow-up questions. **Teams must use slides for the presentation, and can NOT just walk through the HTML report** (slide format is the team's choice - hooray hooray you don't have to use xaringan). The TAs and I will be looking for the following things during your presentation:

- Did they state the research questions and project motivation clearly at the beginning?
- Do they provide a clear description of the dataset?

- Do they showcase graphs that are of high quality (correctly labeled, interpretable, and informative)?
- Are they able to clearly explain how to interpret their graphs, as well as pinpoint what the main takeaways of each graph are?
- Are the graphs (and their main takeaways) relevant to the team's research questions?
- Do they state the main conclusions and takeaways that can be made from the project overall?
- Do they clearly communicate a cohesive narrative for the project? And if there are any follow-up questions, do they answer them clearly and correctly?

More information about presentation day will be provided in the coming weeks.