**Peer Evaluation, due on Thur, Nov 18:**

Each group will be assigned another group with which to do peer evaluations. By class time on Tues, Nov 16, make your latest draft available to your partner group. We will use another Blackboard group for this. Your group will be called Peer Evaluation Group x\_y, with the number of the two groups, x and y. By Thur, Nov 18 at 11:59pm, each member should evaluate the paper of the other group, and upload the evaluation to the same channel, so members of the other group can see them.

The evaluation form is on pages 2 and 3 of this document. For each criterion, please select a score (highlight the box), and enter your comments in the last column. Scores are suggestions; comments are very important; try to give your peer group some good suggestions. Also, offer some overall comments at the bottom. Save the file as *PeerEval\_yourlastname.docx* and upload to the Peer Evaluation Group File Exchange on Blackboard.

**The Four Parts of the Paper:**

1. **Introduction:** At the beginning of your paper, you must describe the data, in a paragraph. Note the following:

* What is the source of the data? Where and when was it created?
* If it is a sample, from what population was it drawn, and how was the sample selected?
* Do you suspect any sampling bias?
* Was it an experiment or an observational study?
* How were measurements taken, or questions asked?
* Do you suspect any bias in the questions or measurements?
* Why is this data of interest to you, and why should the class find it interesting?
* What kind of data cleaning was necessary (R code for this must show…)

1. **Data Analysis:** Write R code to create some relevant graphs, using techniques that we’ve used in class (ggplot, maybe dplyr). About **4 or 5 graphs** should be plenty, depending on complexity. Include some numerical summaries as well. If possible and appropriate, include **a bootstrap confidence interval.**

For each graph and numerical summary, write a paragraph or two summarizing what you see, and suggesting some implications. For example, describe patterns that you observe in a graph, and suggest why they make sense, given what you know about the subject, or if they are unexpected. Do you think there is a cause-effect relationship between any variables? Explain your reasoning.

1. **Conclusions:** Write some overall conclusions – an overall summary of what you learned from your analysis. Summarize in one paragraph.
2. **Limitations / Recommendations:** Write a paragraph describing some of the limitations that are inherent in your study. Also discuss ideas for future research that might build on the work you did in this project. Summarize in one paragraph.

Rubric for Peer Evaluation of Project: Your Name: Nathan Blanchard

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| --- | --- | --- | --- | --- | --- |
| Criteria | 0 | 1 | 2 | 3 | Peer Reviewer Comments: |
| Introduction | Data background is not stated. | Data background is not clearly stated and/or is not accurate. | Data background description is reasonably clear. | Data background description is very clear and thorough. In addition, the student gave a compelling reason why the question is interesting. | The introduction is thorough and seems to meet all requirements. |
| Data Analysis -- Coding | No R code is included in the presentation. | R code for graphs and data summary has errors, or is not completely present. | R code is present and largely correct. Students made use of dplyr, ggplot, techniques learned in class. | R code is correct, uses techniques learned in class, and is well documented with comments in the Rmd script. | No visible code. |
| Data Analysis –  Graphs | No graphs are included in the presentation. | Some graphs are presented, but there is an insufficient number, or some are incorrect or inappropriate for the particular data. | A sufficient number of graphs are presented, appropriate to the data. | A sufficient number of appropriate graphs are presented. Graphs are interesting, attractive, and easy for the audience to interpret. | A sufficient number and good variety of graphs are used, but some graphs have odd formatting and are hard to draw any meaningful conclusions from. |
| Data Analysis –  Summary Statistics | No summary statistics are included in the presentation. | Some summary stats are presented, but there is an insufficient number, or some are incorrect or inappropriate for the particular data. | A sufficient number of summary stats are presented, appropriate to the data. | A sufficient number of appropriate summary stats are presented. Stats are interesting, useful, and easy for the audience to interpret. | A minimal number of summary statistics were used. Including these would make a lot of these graphs much easier to interpret. |
| Data Analysis  (Graphs and Numerical Summaries)-- Written Description | There is no written description of the data analysis. | The written description of the data analysis is incorrect or not relevant to answering the research question | The written description of the data analysis is accurate but not complete | The written description of the data analysis is accurate and completely describes the important features of the distribution | Although a couple of the graphs have been analyzed, most of them just have short descriptions that do not help the viewer understand the conclusions that can be drawn from them. |
| Conclusions | There is no written interpretation of the overall project. | There is a written interpretation, but it is incorrect. | Written interpretation is correct, but not clear and/or not in context | Written interpretation is clear and correct and in the context of the research question. | The conclusion is mostly good, though I would recommend that you also add a couple of sentences discussing location of calls, especially since you mentioned location in the first sentence. |
| Limitations and Recommendations | There is no discussion of limitations of the project or ideas for future work | There is some discussion of limitations and ideas for future work, but the ideas are unclear and/or don’t make sense | Limitations of the study and ideas for future work are described and are generally sensible but are lackluster | Student sensibly describes limitations of the study and has strong suggestions for future work. | Most of the limitations mentioned had to do with how you analyzed the data, not “limitations that are inherent in your study”. Also mention further research that could build on this project. Also, it would be great if you could include some more recommendations. |
| Quality of Writing | Work is not submitted. | Write up does not use complete sentences and/or uses poor spelling and grammar | Write up uses complete sentences but has quite a few spelling and/or grammatical errors | Write up uses complete sentences and has almost no spelling and/or grammatical errors | This report was written using complete, logical sentences with a minimal number of grammatical errors. |

Overall Comments:

Overall, I thought that your project did a great job catching the viewer’s eye and making them want to see more. The graphs were all super interesting as well. One thing that I think you should mainly focus on while putting the finishing touches on this project is making sure to thoroughly explain each graph to help the viewer understand the connections that they can make and the conclusions that they can come to with this data. It looks like this project will turn out great!