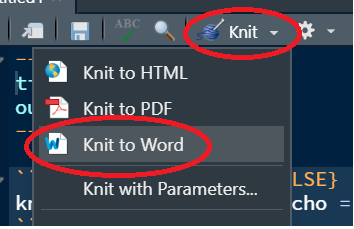
ES218 Project – Peer review

Make sure to read the following guidelines before proceeding:

* You will clone the author’s repo to your local folder. Then you will create a new branch to that repo called *feedback\_<your name>* where you will add/commit two Word documents (outlined later in these instructions).
* You as the reviewer will need to check that all the packages used in the project’s script are installed on your computer. You will know if a package is missing from your computer if the RMD file fails to knit (the error message should be self-explanatory).
* Inline feedback will be done in a Word knitted version of the Rmd file. You can knit to Word using   
    
  Note that feedback pertaining to figure size and layout should be based off of the HTML knitted output and not the Word knitted output
* When completed, commit this Word document and the knitted Word file (with feedback) to the author’s github repo.
* The feedback will be shared with the original author, but the scores will not.

1. Author whose project you are evaluating:

Makaylah Cowan

1. Evaluate each criterion on a score from 1 to 5 (5 being best):

|  |  |  |
| --- | --- | --- |
| Criterion | Description | Score  ( 1 to 5 ) |
| Complexity of analysis | * Was the analysis thorough? * Did the nature of the analysis involve complex coding procedures? * Did the author go above and beyond what was expected?  (note that a score of 5 should be assigned judiciously) | 4 |
| Reproducibility | * Was the “knitting” of the Rmd file error free? **(if the knitting process produces an error, 3 points should be automatically deducted)** * Were all warnings and messages suppressed from the output? | 5 |
| Presentation  &  Code quality | * Was the document carefully constructed with properly sized figures? * Were the code chunks clear and properly commented? * Were all loaded packages used as intended by the author? | 5 |
| Discussion | * Did the author clearly layout a narrative? * Were the figures and analyses appropriate for what the author was trying to convey? | 4 |

1. Provide thoughtful and constructive feedback.

* Analysis: You thoroughly analyzed the data to show which points of the year are at higher risk for density altitude and showed the statistical significance (or non-significance) of changes in your variables over time. For the intro, maybe provide a source on some of the background info you give. Also the methods section could have given a bit more insight into what you are about to show in the results section.
* Reproducibility: The Rmd file ran error free, and all warnings and messages were suppressed from the output.
* Presentation: The presentation of the residual dependence plots could be better, maybe use ggplot instead of the base (also axis labels didn’t show up on the word doc but they did on the html). Also, these plots are hard to interpret due to the high number of variables, so maybe you could use a density or hex plot instead of a scatter plot to show where on the plot the concentration of data points is highest.
* Discussion: The data shows very clear results! Your results told a good narrative of the data, but there is not much of a discussion besides that. It would have been interesting to further explore how density altitude can be prepared for and perhaps minimized based on the data you present. Also, perhaps you could have used the trends in data to show how humidity and temperature could behave in the future, and steps LAX could take to make flights safer given these conditions.