

## LLO8200 Data Science: Final Projects

### Presentation

- We will do in-class presentations the last two weeks of class. The length of the presentation will depend on how many groups we have, but plan on it being 20-30ish minutes (include at least 5-7 minutes for Q&A).
  - EVERYONE should come prepared to ask questions of the presenters.
  - Every group member needs to be actively involved in the presentation and should be able to answer any question posed to the group (on any part of said presentation). No one-person shows here!
  - You will submit a final presentation (PPT, Prezi, whatever format you prefer) after incorporating feedback from the class/me after you present. Your final presentation will be uploaded at the same time as your final report. The in-class presentation is a run-through to troubleshoot potential issues before the final product is graded.
- The presentation should include:
  - An articulation of the problem in practice.
    - This should include a brief literature review - I am not talking about a full-blown literature review, but something that grounds your work in reality.
  - A clear presentation of research question(s).
  - Descriptive statistics (visuals).
    - Univariate, bivariate - introduce your data so that the class knows what you had available to you and what the data "looks" like.
    - It should include general information about the size of the dataset and any other important details the audience may need to understand your eventual findings.
  - Analyses (did you run a regression? maybe an ANOVA?)
    - You must include a table of your model results (even if you only talk about some findings, we want to see the full model)
  - Model validation
    - What type of validation did you use?
    - Present the appropriate statistics for the validation method you used.
  - Findings/key takeaways
  - Limitations and next steps
- After you present in class, I expect that you take feedback from me and your classmates and integrate that into your work products before turning them in.

### Final Report

- Following the same guidelines as the presentation above (i.e., including the same components), you will need to turn in:
  - An .Rmd file that includes the code to generate your clean final report (no unnecessary code, messages, or warnings showing). See the example reports on the course website (and I will teach you how to "hide" the code from your output).

- If you also want to share your cleaning code, you can submit that in a separate .Rmd file -- just label it "cleaning".
- A knit report from said .Rmd file (PDF or html).

### Submitting your Final Products

- You will upload your final presentation, final knit report, and final .Rmd file to the LMS on your due date.
- One group member will upload all products.
- As stated above, you can also include your cleaning code in this upload, if you wish (please put that in a separate .Rmd file).