CS 6316
Requirements:
Project Presentation Round 2 ~ Experimental Design

Logistics:

1. All group members *must* be in attendance
2. Each group will make a presentation to the rest of the class
3. **Duration**: ~5-6 minutes
4. <u>Every</u> member of the group must contribute to the presentation (must speak)
5. You may have visual aids to assist you with your presentation such as slides or similar (you may use your own laptop to present on)
6. Your group has to submit a short report (see "Submission" below)
7. All groups must attend **both** presentation days to support your classmates

Presentation requirements:

1. **Introduce** everybody in the group
2. **Problem definition** / description (remind us briefly what you are working on)
3. **Description of data** and data source (remind us briefly what data you are using)
4. Discuss your **experimental design**, including:
   a. What is your **process**? Describe the design of your experiments including your **methodology** to compare the performance of various algorithms/techniques used
   b. **Algorithms** you have chosen to use
   c. **Model selection** using cross validation
   d. **Metrics*** you will use / have used
5. Present any **preliminary results** at this time, discuss them – do not be afraid to discuss things that did not go well – this is a learning process!
6. **Challenges faced so far** (*if applicable*) and plan for completing the project (What's left to do? Do you anticipate any challenges as you complete your project?)
7. **Ask** if anybody has any questions! ☺

You are encouraged to include more things in your presentation as it pertains to your project.

***EXAMPLES OF METRICS** (**not** an exhaustive list): MSE/RMSE (regression); Confusion Matrix (Accuracy, Precision, Negative Prediction Value, Sensitivity/Recall, Specificity); ROC curve; …feel free to use any others as appropriate.

Submission:

- Submit a **short report** providing details about the "round 2" presentation requirements (see above) Use the section headings given above (or similar). Add additional headings if you discuss more things than the items listed above. <u>Note</u>: this "round 2" report is not equivalent to your final report, so a summarized version covering the requirements mentioned above will be fine.

- This report must be typed and in PDF format

- Ensure that the following information is at the top of the document:
  - **Team name**, if you have one (*feel free to have fun with this, and be creative!*)
  - **Team number** (SEE SPREADSHEET)
  - **Names and computing IDs** of all group members

- Submit any **visual aids** that you used during your presentation

- Report and any visual aids can be submitted together in one .ZIP folder

- Only **ONE (1) person** from <u>each</u> group needs to submit the report and visual aids on **Collab** (submit to: "**Round 2 - ML Project Experimental Design**")

<u>Note</u>: There is very little room, if any, to make changes or to deviate from your plan. Try to ensure you are making progress with your project and that your data, algorithms, and (most of your) experimental design are finalized. If you and your group are having ANY problems or difficulties, or would just like to talk about your progress, please do not hesitate to contact me! We can plan a time to meet (outside of office hours) to discuss any questions or concerns that you have. Talk to me sooner rather than later!