CS 236 Project Final Report Guide[1]

Deliverables:

- PDF writeup of final report (7-10 pages) using **this template**.
- Code for work so far (include link in writeup)

Suggested final report structure:

- Introduction
  - Present the motivation of you work (usually, a problem to be solved). Why is this significant/needs to be addressed? What is challenging about the problem? You should have any figures/explanation necessary for a person not familiar with the domain to roughly get what you are doing here.
- Related Work
  - Discuss prior similar or related work. What is the main difference of your work from the prior ones?
- Task Definition
  - Give a mathematical formulation of the problem to be solved with all the relevant details (what is the size/shape of the input? Output?)
  - Provide concrete input/output pairs for your problem (eg if your input is an image and output is classification, have an actual example of an image along with its classification. If it's a game, have screenshots of the game.)
- Approach
  - Proposed Methods
    - Explain the techniques you plan to use in your project

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[1] Adapted from CS221 Project Final Report Guide.

- You should not explain details that are already known to anyone who has taken the class (i.e. don't explain backprop). Instead, explain the logic behind choosing this algorithm and any design decisions you made along the way.
        - Can still include section of extra-credit ideas
- Results
    - Evaluation/Experimental procedures
        - Explain your baseline again, possibly in more detail
        - Explain any experimental procedures (training details, test data, etc.)
    - Results
        - Explain the metric(s)
        - How well does the baseline perform?
        - How well does your proposed
        - Put the metric into context (your metric may be very domain specific, so provide context for what a good/bad score is; for example, how well would a normal human do?)
        - Your figures should be professional looking at this point (have a legend, labeled axes, etc.)
    - Analysis
        - What quantitative experiments besides the metric evaluation, if any, have you done or still plan to do
        - Qualitative Analysis: What kinds of non-quantitative analysis have you done and still expect to do
- Conclusion
    - Sum up - repeat what you did and roughly how well you did and whether you met your expectations
    - Any ideas for future work
- Broad grading basis: having all the content we indicated, formatting, writing. We will be less forgiving about poor grammar, sloppy figures, etc. when grading the final report.

Extra Credit:

- We will give up to 15% extra credit on the final report if you prepare a 2-3 minute video on your final project report and allow us to share a Youtube link on the webpage