Report for the mini-project

The report describes your project, the work that you have done and your findings. The recommended report size is 8-10 pages (excl. a title page / citations if any), but 12 pages are also acceptable if needed. The report should largely look like a research paper.

Structure of report

For the report, we suggest that use the following structure:
- Title, members of the group, student ids
- Abstract (1 paragraph: the main idea and a key finding)
- Introduction (max 2 pages):
    - Description of the problem area and the problem itself
    - What is the research question / goal?
    - Why is this an important / meaningful / interesting problem to consider?
    - The very basic idea of the approach and why this is a reasonable approach for this problem?

- Problem: (roughly 1-2 pages)

    - Explain the problem; what kind of assumptions / observations you have about the problem
- Approach (roughly 2-3 pages)
    - Explain the model; if any important assumptions are made at this stage, explain why they are reasonable or necessary
    - Explain learning / inference algorithms
    - Explaining (perhaps briefly) any necessary preprocessing / postprocesing / data acquisition stages (maybe earlier, depending on the project; may also move to the experimental section)
- Experiments / Empirical evaluation (roughly 2-3 pages)
    - Any details about experiments (dataset sizes, parameter selection, etc)
    - Results
    - Analysis (discussion of results / visualization / findings / etc)
- Discussion and Conclusions (0.5 – 1 page)
    - Refer to the research questions you defined in your introduction.
    - Any related work you are aware of?
    - Challenges you observed?
    - "Future work" (you do not need to do this work really ☺, but what would you change in the model / what experiments you would run / etc, if you would have a chance to do this? What other people should look into?
    - Any thoughts / observation / wider implications
- Team responsibilities (1 paragraph)
    - Who did what

Other requirements for your report

Write this report in such a way that it should be understandable to any student who took this class. In this class, we are not aiming for very broad audience – this should be a paper accessible to a not-very-experience researcher in natural language processing or machine learning. However, make sure that the report describes interesting finding and your methods, rather than provides a detailed description of your program.

- Do give a clear description on the decisions you made in the design
- Use scientific writing style and language in your report (formal, clear, concise)
- Use figures and tables to clearly display your results
- Try to make the report interesting (i.e. concentrate on insights / general ideas / findings / etc – rather than on obvious details)