Statistical evaluation for artificial intelligence and data

Report writing

Reports

- The reports should contain
  - Front page
  - Summary
  - Introduction
  - Description of data
  - Methods & analysis
  - Results
  - Discussing & conclusion
  - Appendix with figures, tables, and program code (optional)

- Expected report length is 6-8 pages, there is hard limit of 12 pages each. The appendix does not count towards the page limit.
  - The appendix cannot be used as a way to circumvent the page limit.

Front page & summary

Please include a front page with:

- Full names
- Student ids
- Course name/number
- Date
- Project name

The front page does not count towards the final page count.

- The summary should contain a summary of the problem that you are working with, which results you got, as well as main conclusions.
- Don’t get into technical details. The summary should not be very long (100-200 words)

Introduction

- Briefly introduce the background & setting of the problem, as well as the aim of the report. Furthermore, you could give a very short description of the analysis that will be applied.

Data

- Describe of the data you are analyzing. What kinds of data do you have, how were they collected (if applicable)?
- Include a few good plots to highlight important features in data. You can put additional plots in the appendix.

Methods and analysis

- Describe the methods you used and why you decided to use them. Also discuss the assumptions behind the methods. Do not go into detail with theory.

- You can organize your methods/results into sections and subsection according to different goals.

Results

- Present the results.
- Tables and figures are good ways of illustrating results.
- What do your results show?
- Discuss your results. How reliable are they?

Discussion / conclusion

- What are your conclusions? The conclusion should be connected to the aim of the report in the introduction.
  - Highight important results

- Perspectives on your results, perhaps ideas for future work.

This could include things, that are not in the scope of the project

- Note that the project description does not fit directly into the report format.
- Try formulate your report so that it fits into the report format, but also so that the goals of the projects are clearly visible.
- I will give you quite much flexibility on how you write and structure your report, but there will be points for having a well-structured and readable report.
- The report must be self-containing.

General

- Do not include theory.
  – Assume that the reader is a peer who is familiar with the standard theory.
- It should be clear what you do without reading your code. Others should be able to understand & reproduce your results.

- If you use unfamiliar methods or terminology, please include a footnote or reference.

- Don’t spend text on what you could/should have done, but didn’t do, (unless relevant for what you did).
  – If you didn’t do it, it doesn’t count.

- Figures and tables must be explained.

- Code should go in the appendix.

Synopsis

- 2 pages, include names and study numbers
- Brief description of the setting
- Relevant plots and perhaps a table or two
- Ideas for analysis
- Highlight a few challenges
- A synopsis is not a ”final” product, but should show your intentions.

Peer feedback

- Each student gives three feedbacks on synopsis.

- Write a few things that think you think are good
- Write a few things that might be improved or perhaps needs some considerations for the final report.

- Use it as an inspiration, both by reading others' synopses (and giving feedback) and by recieving feedback.

- Use the Peergrade tool in DTU Learn
  - To hand in synopsis
  - To give feedback

The process

- Anders Reenberg Andersen (arean@dtu.dk) is also supervising projects.
- Anders will be available for general questions and help
  - Default times are 10-12 every day
  - Line and I might also be available.
  - Use the zoom channel.

- Anders and I will do 1-2 individual supervision meetings with the groups, arranged individually