



Master Seminar: Deep Learning for Medical Applications

Presentation and Blogpost Guidelines

Logistics

- Presentation: Max. 25 Minutes
- Q&A: 5-10 Minutes
- Number of slides: Approximately 20 - 30
- Attendance is mandatory, however, being absent for one session is allowed.
If more than one session is skipped, 0.3 is deducted from the final grade.
- Blog post submission: Latest **1 week before** the final session
- Remember: Presentation and blog post each account for 50% of the total grade



Steps to Success (I): Independent Research

- Read the papers and search the topic assigned to you for more similar papers.
- Discuss the topic and your found papers with your advisor. The tutor would have more paper suggestions for you.
- Read blog posts, watch videos and lectures complimenting the topic assigned to you.
- Note down any potential questions and parts of the topic that remain unclear after your independent research. Discuss them with your advisor and try to find the weakness and strengths of each method.
- Prepare a first version of your presentation using this guide.



Steps to Success (II) - Feedback Loop

- Make sure that your advisor gives feedback on your blog post
- Send the first version of your presentation to your advisor **At least one week before your presentation.**
- Iterate over your presentation until you reach a final version.
- Rehearse a few times before the day of your presentation to ensure your timing and slides are in order.



Evaluation Criteria

- Was the topic's big picture / motivation introduced properly?
- Did the student reviewed state-of-the-art papers for the topic?
- Did the student describe the relation of papers to the topic?
- How well did the student understand the methodology of papers?
- How were the topic-related results explained and discussed by the student?



Evaluation Criteria

- How well did the student compare the methods?
- Did the student state the strength and weakness of the papers?
- How well was the quality of slides (proper fonts, pictures, citations,...)?
- How well the student managed the time of presentation?



Presentation Structure (I)

1) Introduction

- Problem statement
- Motivation (what is lacking in previous works, ...)
- Briefly mention related works

2) Methodology

- Detailed explanation of the method proposed in the paper



Presentation Structure (II)

3) Experimental Setup

- Datasets
- Evaluation baselines
- Training setup

4) Results and Discussion

- Selected results that show the effectiveness of the proposed method
- Present the conclusions and implications from the results (from the authors, not your own)



Presentation Structure (III)

5) Your own review and discussion

- Open questions
- Applicability of the method to different fields
- Strengths and Weakness of the work
- Lessons learned

6) Final Slide:

- Summary of the work / presentation



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Helpful Points

- Encourage the audience to engage in discussion after your presentation.
- Talk about open questions and share your own view of the topic and its potential future impact.
- In order to maintain the interest of the audience make sure the storyline of your presentation is engaging.
- Proofread your presentation and do not copy-paste statements directly.
- You can use figures from other sources but always make sure to cite them.



References in the slides

- The citations should be placed at the footer of the slide they are being mentioned.
- Full list of authors, title, conference/journal of publication and year should be mentioned.
- An example can be found in [1].



[1] Furrer F, Clot J, Haller DM. How to perform a successful scientific presentation?, Revue Medicale Suisse, 2019

Blog post

Structure: Similar to the presentation. There are **two** main sections in the blog post.

1. Introduction of topic and the description of papers related to the topic (up to 2000 to 2500 words) (**Your own words, be careful about plagiarism**)

It should **summarize the topic** with high emphasis on the:

- Problem Statement / Big picture
- Methodology of other works related to the topics
- Important Results that may compare the state-of-the-art related to the topic.

2. Your own review (300 to 500 words) (Place it in the end of the blogpost, with a heading that makes it clear this is your review and not from the paper). It should contain the following contents:

- Strengths
- Weaknesses
- Comparison of the papers





Good Luck!

Feel Free to Contact Us for Questions