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Discussion on 27.01.2027
No homework

Exercise Sheet 12 in
Scientific and Technical English
WiSe 2026/27

The exercise sheets consist of in-class exercises and homework. The in-class exercises take place during the second half of the lecture time slots. The homework, which is optional and ungraded, can be submitted via the "Homework" section in Moodle. The homework is subject to peer review.

Unless indicated otherwise, generative artificial intelligence assistants such as ChatGPT may be used, as long as you acknowledge how you use them as specified by the Institute's policy on plagiarism.[1] However, you may not use such tools to generate peer reviews for you. In addition, we strongly recommend that you do not use them to generate entire solutions, since that would defeat the purpose of the exercises.

In-class exercise 12-1 ***Slide Competition*** Among the material available on Moodle, you will find the three slide decks for these presentations:

1. Richard Yuanzhe Pang, Weizhe Yuan, Kyunghyun Cho, He He, Sainbayar Sukhbaatar, and Jason Weston, "Iterative Reasoning Preference Optimization," *NeurIPS 2024*, 2024.[2]

2. Konstantin Fischer, Ivana Trummová, Phillip Gajland, Yasemin Acar, Sascha Fahl, and M. Angela Sasse, "The Challenges of Bringing Cryptography from Research Papers to Products," *USENIX Security 2024*, 2024.[3]

3. Patrizio Angelini, Therese Biedl, Markus Chimani, Sabine Cornelsen, Giordano Da Lozzo, Seok-Hee Hong, Giuseppe Liotta, Maurizio Patrignani, and Sergey Pupyrev, and Ignaz Rutter, and Alexander Wolff, "The Price of Upwardness," *GD 2024*, 2024.[4]

a) Have a look at them and briefly note what you consider their respective strengths and weaknesses.

[1] `https://www.medien.ifi.lmu.de/lehre/Plagiate-IfI.pdf`
[2] `https://neurips.cc/media/neurips-2024/Slides/96659_nZhhoGi.pdf`
[3] `https://www.usenix.org/system/files/usenixsecurity24_slides-fischer.pdf`
[4] `https://ac.tuwien.ac.at/gd2024/slides/Session10-Patrizio-Angelini.pdf`

b) Discuss the slide decks and their respective strengths and weaknesses in groups of two or three, and rank the decks from strongest to weakest according to your collected arguments. Which arguments are the most important to you? Can you reach a consensus in your group?

In-class exercise 12-2 ***Poster Presentation*** Among the material available on Moodle, you will find this scientific poster:

> Mayee F. Chen, Nicholas Roberts, Kush Bhatia, Jue Wang, Ce Zhang, Frederic Sala, and Christopher Ré, "Skill-it! A Data-Driven Skills Framework for Understanding and Training Language Models," *NeurIPS 2023*, 2023.[5]

a) Have a look at the poster and identify its domain and its main takeaway.

b) Pretend that you are one of the poster's authors, and develop a short script for a one-minute presentation of your poster to a professor who is an expert in the poster's domain.

c) Develop a slightly longer script for a two-minute presentation of the poster to a doctoral researcher who has just started working in the poster's domain.

d) Read both of your scripts to a neighbor, and have them read their scripts. Discuss your presentations, comparing them with respect to style and focus.

In-class exercise 12-3 ***Slide Critique*** Choose an old slide deck related to computer science that you have developed. If you do not have one or do not want to share one, find a slide deck on the internet.

a) Write a 250-or-so-word critique of the slide deck that discusses its strengths and weaknesses.

b) Sketch a poster based on the slide deck.

[5] `https://neurips.cc/media/PosterPDFs/NeurIPS 2023/72098.png`