

Statistical Machine Learning

General Instructions for Homework Exercises

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General remarks

Your grade will depend on two factors. Firstly, it will be determined by the correctness of your answer. Secondly, it will depend on the clarity of presenting your results and a good writing style. It is your task to find a way to *explain clearly how* you solved the problems. You can still get partial credit even if you did not complete the entire task.

Every group has to submit its own original solution. We encourage interaction about class-related topics both in-class and on Moodle. However, you should not share solutions with other groups, and *everything you hand in must be your own work*. You are also not allowed to copy material from the web without acknowledgment. You must *acknowledge any source of information that you used to solve the homework* (i.e. books other than the course books, papers, etc.). Using acknowledgments will *not* affect your grade, but failing to do so is a clear violation of academic ethics. Note that the university as well as the department is very serious about plagiarism. For more information on plagiarism in general, please see <https://plagiarism.org>.

Group work and grading policy

You are required to work on each assignment in groups of **two**. We reserve the right to merge singleton groups randomly.

Files you need

The data you will need for the assignments and the PDF with the assignment tasks will be made available on Moodle.

Handing in written exercises

Please upload your solutions as a single PDF created with *LaTeX* in the corresponding section on Moodle. You only need to submit one solution per group. Should you have trouble accessing Moodle, get in touch with us as soon as possible.

Programming exercises

For the programming exercises you will be asked to solve them with *Python 3.6 or higher*. If not specified otherwise in the task description, you are only allowed to use the additional Python packages `numpy` and `matplotlib`. For the programming exercises you will be asked to hand in Python code snippets and plots as part of your solution PDF file. Use comments in the source code to clarify the functionality of your implementation in sufficient detail. Even if the computed results are incorrect due to a minor bug, you may still earn partial credit if your reasoning is valid.

If you feel that there is a mistake in the assignments, or you find the task ambiguous, contact us on Moodle.

Late submissions

We will accept late submissions, but you will lose *20% of the total reachable points* for every day of delay. Note that even 15 minute delays will be counted as being one day late! After the assignment solution has been discussed in class, you may no longer hand in. If you are not able to make the deadline, e.g. due to medical reasons, you need to contact us *before* the deadline. We might waive the late penalty in such a case.