

# Machine Learning



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

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Name, Vorname: \_\_\_\_\_ Matrikelnummer:

## Overview

- You have **90 minutes**.
- There are **2 questions** for a total of **3 points**.
- Write clearly! We cannot give you points for what we cannot read.
- Solutions without derivations will not receive full points.
- Be concise! Use short sentences and get straight to the point. Unnecessarily long answers can result in points deduction!
- You are allowed to use one cheat sheet with handwritten notes on both sides, but you **have to submit it** together with your exam (therefore, put your name on it).
- Fill in the solution on this sheet. If necessary, add sheets for the derivations and put your name on it.
- Use the **omit boxes** to select your worst answers. The points of the corresponding questions have to sum up to three. You will get bonus points for each of these questions (not for more). The bonus points will compensate for the number of points missing to a correct answer for these questions.

*I have understood the bullet points above and agree with them.*

Signature \_\_\_\_\_

### Question 1 (1 Points)

Omit: ☐

Here you will find the text of the question. There will be roughly 30 questions. On the upper right corner you can see the “omit” box.

*There will be enough space for the solution. If you need extra space, we will give you blank sheets. You will have to sign and submit all blank sheets that you ask for.*

### Question 2 (2 Points)

Omit: ☐

Questions can be worth 1, 2 or 3 points. Remember: you have to omit questions for a total of 3 points (e.g., three questions of 1 point each, or 1+2 points questions).

*Good luck!*