

Homework 6

- ! For each problem, please clearly show your reasoning and write all the steps.
- G As data scientists, you should feel free to google it whenever you see something unfamiliar.
- ☺ Group discussion for the homework is encouraged, but you have to write your answer by yourself. Also, you are always welcome to discuss the problems with me.

Task 0.

Read the relevant chapters in the textbooks listed on Sakai.

- [S-S] stands for *Understanding Machine Learning* by S S-S.

Problem 1. (10pt)

[S-S] Section 5.5: Problems 5.3

Problem 2. (10pt)

[S-S] Section 6.8: Problems 6.1

Problem 3. (10pt)

[S-S] Section 6.8: Problems 6.2

Problem 4. (10pt)

[S-S] Section 6.8: Problems 6.5

Problem 5. (5pt Bonus)

[S-S] Section 6.8: Problems 6.8