homework sheet 02

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1 Assignment: Learning by doing

Problem 1

sdfsdf

Problem 2

sdfd

Problem 3

sdfd

Problem 4

sdfd

Problem 5

The values of the second column are much smaller than the values of the first and third column. Scaling the data could compensate this problem affecting the euclidian distance.

This problem does not arise when training a decision tree since only one feature is considered for splitting the set at a time. Therefore, only the relative differences within each column are important.

2 Assignment: Probabilistic kNN

Problem 6

sdfd

Problem 7

sdfd

Problem 8

sdfd

3 Assignment: Neighbourhood Component Analysis

Problem 9

sdfd