

Exercise

08

TUM Department of Informatics

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SVM and Kernels

Problem 1:

Similarities:

Both try to find a fitting hyperplane which separates the data classes.

Difference:

SVM tries to maximize the margin from the hyperplane to the data points, perceptron algorithms only care about a valid separation of the data classes.

Problem 2:

Problem 3:

Problem 4:

Problem 5:

Problem 6:

Appendix

We confirm that the submitted solution is original work and was written by us without further assistance.
Appropriate credit has been given where reference has been made to the work of others.

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