

Assignment 2

Feedback SVMs & NNs

Machine Learning Algorithms

Erstellt von:

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Feedback

How clearly written and comprehensible is the submission in general?

The writing, in general, is straightforward and easy to understand. However, a lot of "unnecessary" information was given. The explanation of the different parameters is very nice since it helps me understand what they do and how they can affect the result. But somehow, if these explanations are not used to argue why specific parameters have been chosen or to explain any results, their explanation in the submission is questionable.

How easy is it to understand the results described in the submission?

The description for the chosen parameter values via grid search is straightforward. However, the explanation of the accuracy achieved for each classifier lacks information. For example, the confidence intervals are calculated but not printed somewhere. Though they are plotted, it is hard to determine the exact value since the plot is not that well scaled.

How convincing is the experimental setup?

The experimental setup seems to be quite professional. Especially the hyperparameter optimization looked well thought through to me. The same goes for the option to pass a training dataset separately. Nevertheless, it was hard to determine which split for testing and training had been chosen. I would have preferred a separate variable to show how many percent of the data was used for training. Also, the cells that are necessary to reproduce the result aren't marked, as demanded by the task description.

How do the authors justify their conclusion? Are you convinced? Which questions have not been addressed by the authors?

The summary gives some explanations of why certain decisions have been made. To me, all questions have been addressed, at least in a very minimalistic way (e.g. statistical tests necessary to state which classifier is more accurate). However, an explicit statement on the estimation's confidence would have been excellent. Also, it is less error-prone if such parameters are defined separately and then passed to the function.

Summarize the quality of the submission.

To me, the submission overall looks very and is very detailed in its explanation of the different parameters of the classifiers. However, since no argument is based on those, I would declare those as somewhat unnecessary. There it would be better only to describe what is necessary to understand certain explanations. Also, I would define important parameters separately as this helps the reader extract meaningful information more easily.