

Report

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Findings :

problem1

Using gaussian kernel is a little bit optimal than polynomial kernel for this dataset.

Multilabel is an extension on single label prediction and can be used for cases where we have more than one possibility for a sample.

Problem2

Smaller dataset makes neuronetwork extremely faster but resulting in a slightly worse accuracy.

Combining several models on a dataset could improve the prediction accuracy.

Accuracy :

Problem1

Polynomial accuracy is 57.17%.

Gaussian accuracy is 58.71%.

Problem2

If, $k = 5$, KNN Precsion is 95.23%.

SVM Precsion is 89.54%.

ANN Precision is 89.88%.

Ensemble Precsion is 95.51%.