Pattern Recognition
Spring 2019

Final report

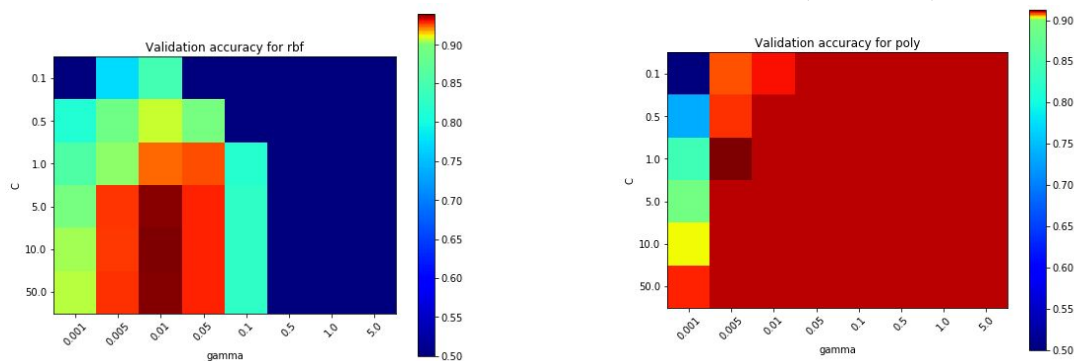Authors : Nicolas Fuchs, Jérôme Vonlanthen, Thomas Schaller and Sylvain Julmy

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Group Organization

Tasks

SVM

The SVM task was achieved by using the sklearn[1] library, which is very simple to use and provides a lot of examples for a better understanding.

In order to find the best parameter, we used a grid search approach with various parameters and display the heatmaps of the results for each tested kernel (see below).

Using this, we were able to obtain a 97.9% accuracy.

MLP

CNN

Keyword spotting

Signature Verification

General thoughts and and feedback

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[1] https://scikit-learn.org/stable/modules/svm.html