

Machine Learning for Applications in Computer Vision: Week 1

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Exercise 2: Support Vector Machines

Results:

The training data set is stored in images and labels. The test data set is stored in images1 and labels1. The tests were carried out for the first 1000 samples using linear kernel, polynomial kernel and RBF kernel. The results of the tests are given below.

I got the best performance using the polynomial and linear kernel whereas for the RBF kernel, I got the worst performance. The performance metric is as displayed below

Classifier	LinearSVC	SVC,linear kernel	SVC,polynomial kernel	SVC,RBF kernel
Accuracy	0.8235	0.8758	0.8865	0.1028



