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2DV516 – Intro to Machine Learning, Distance

Assignment 3, Exercise 1

Report

In this assignment I have done the following:

* I have used 637 of the 796 data examples for use in cross validation. This is approximately 80%
* I have used GridsearchCV for cross validation and hyper parameter tuning
* I chose 5 for the value of cv or k, the number of ‘folds’
* Here are the parameters that I used on GridsearchCV
* test\_params = [.1,1,10,100,1000,10000]
* svc\_params = [{'kernel':['linear'],
* 'C':test\_params},
* {'kernel':['rbf'],
* 'C':test\_params,
* 'gamma':test\_params},
* {'kernel':['poly'],
* 'C':test\_params,
* 'degree':[2,3,4,5,6,7,8,9]}]
* Here are the decision boundaries plotted with hyperparameters and accuracy:





