

CS771A : Machine Learning: Tools, Techniques and Applications

Assignment 2

Divyanshu Shende
Roll No. 13264

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1 Spam Filter using SVM

Five Fold Cross validation was used. Here are the results:

Accuracy = [0.98965517, 0.99309154, 0.99307958, 0.98788927, 0.98961938]

Precision = [1, 0.9893617, 1, 1, 1]

Recall = [0.93814433, 0.96875, 0.95833333, 0.92708333, 0.9375]

Average Accuracy = 0.990666988968

Average Precision = 0.997872340426

Average Recall = 0.945962199313

2 Connect Four

Here again Five Fold Cross Validation was used in both cases.

1. One vs Rest : The accuracies were as follows : 0.774422735346, 0.809058614565, 0.710923623446, 0.759029011249, 0.681027463173. The average accuracy was 0.74689228955.
2. One vs One : The accuracies were as follows : 0.681172291297, 0.673401420959, 0.556912374186, 0.642391947898, 0.556295802798. The average accuracy was 0.62203476742.