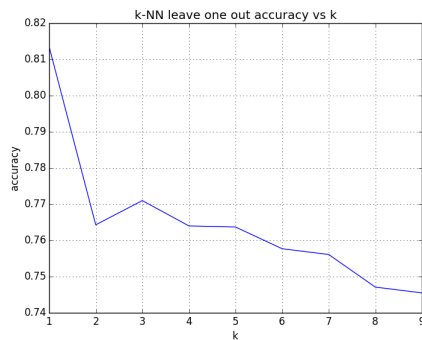# CS 725 Assignment 1

Sasank
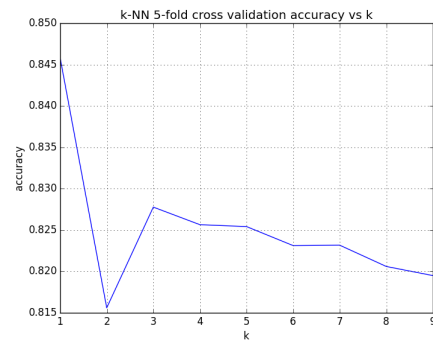
February 2, 2015

1 Question 1

- Accuracy decreases with increase in number of neighbours. This might be because classification boundaries get less distinct.

- Accuracy decreases for the same reason as before.

(a) Leave-one-out corss validation accuracy   (b) 5-fold corss validation accuracy

Figure 1: Question 1

2 Question 2

In training set 1, almost all examples correspond to label 1. In testsets 1 and 2, all the data correspond to labels 1 and 2 respectively. Thus testset1 accuracy is almost 1 and testset2 accuracy is almost 0.
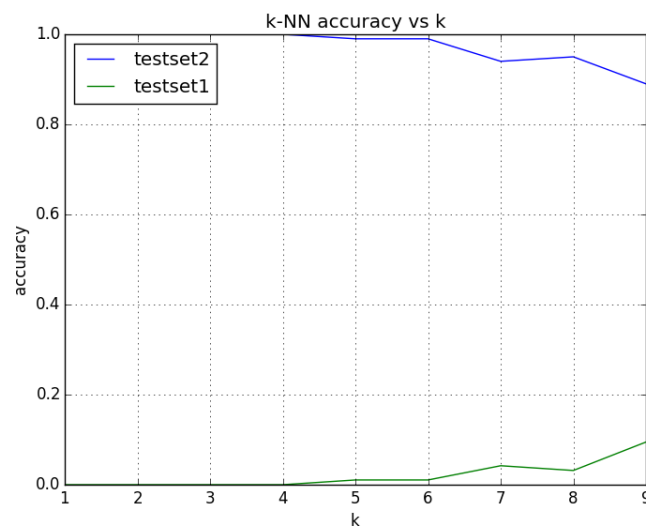

Figure 2: Question 2