

Exercise 15

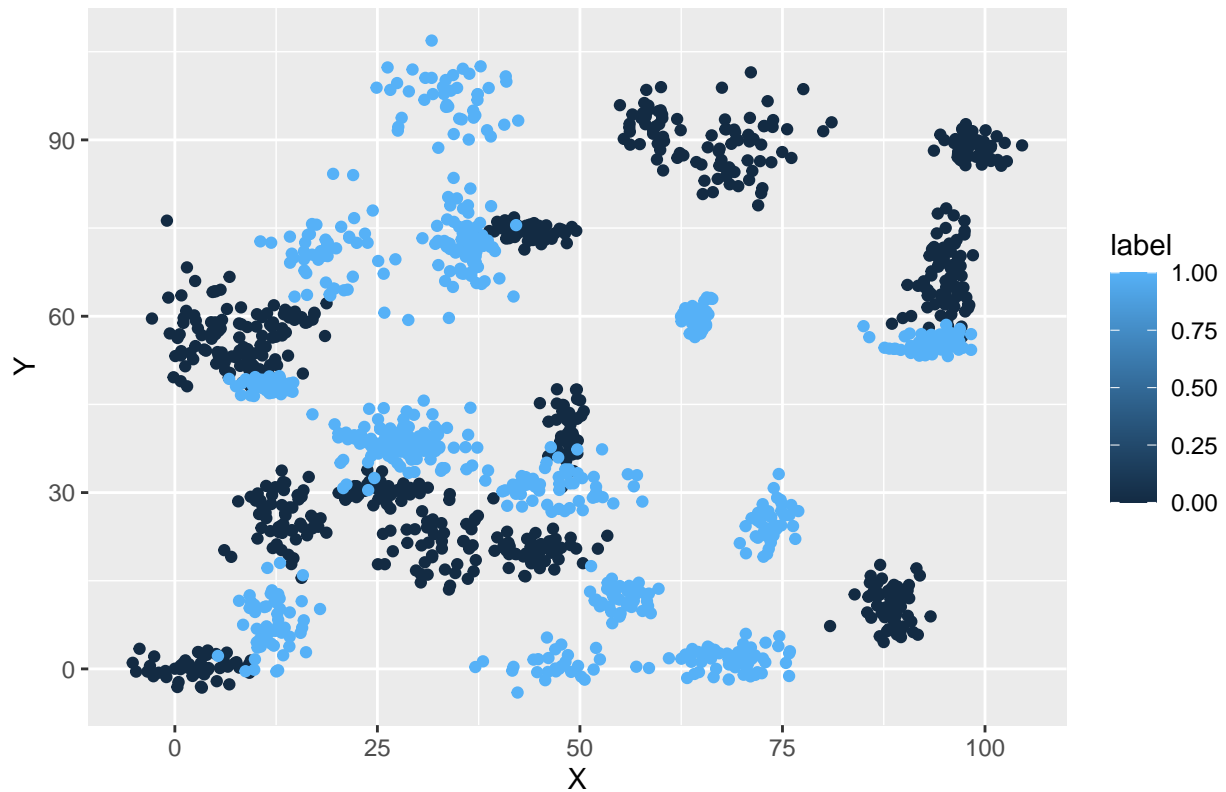
Bilal Kudaimi

October 30, 2020

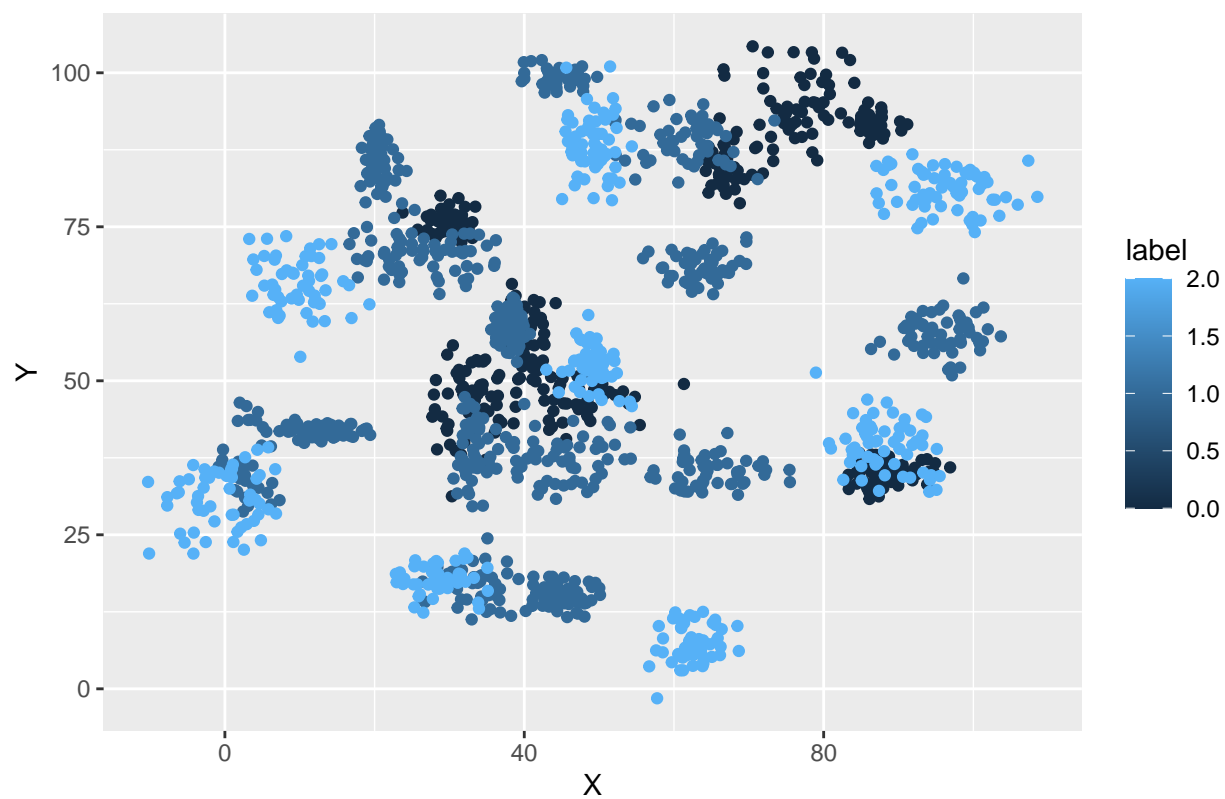
#A: Scatter plot of both data sets

#B: Fitting KNN model to each data set and plotting accuracies for each K value

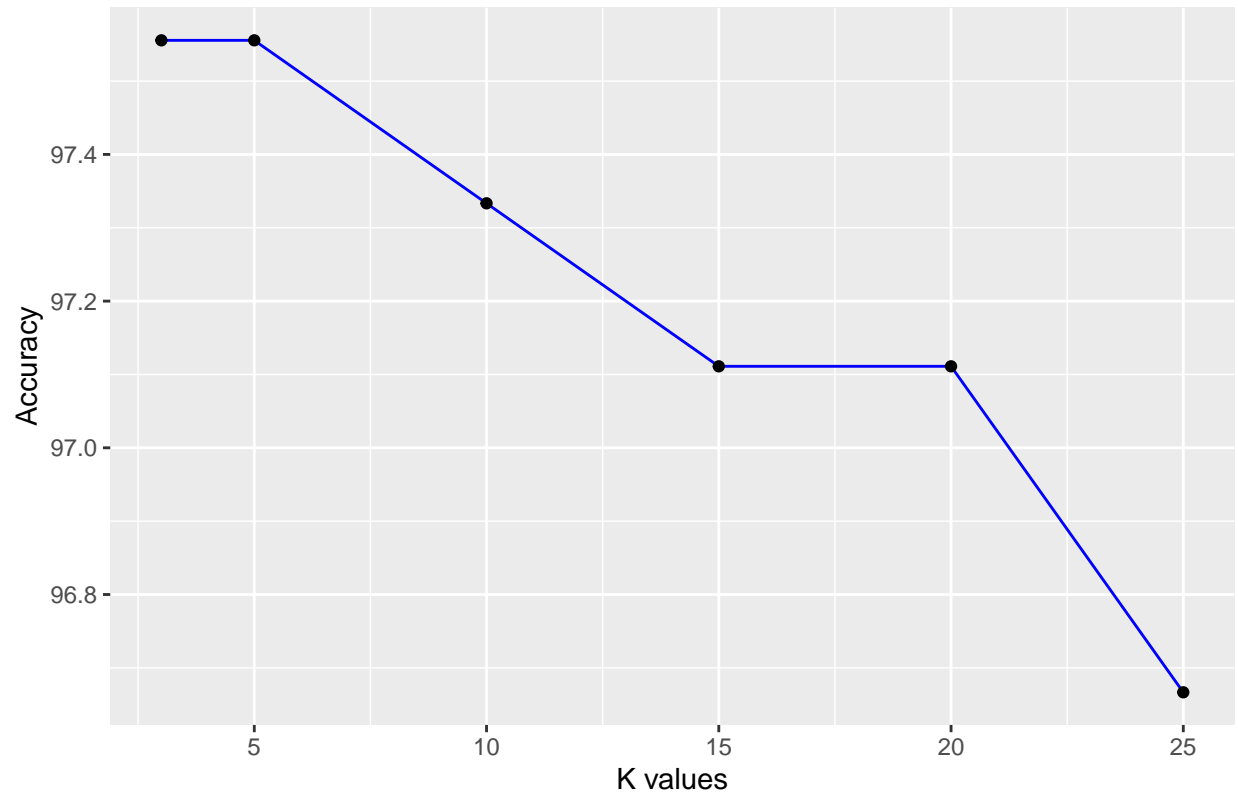
Scatter plot of binary data



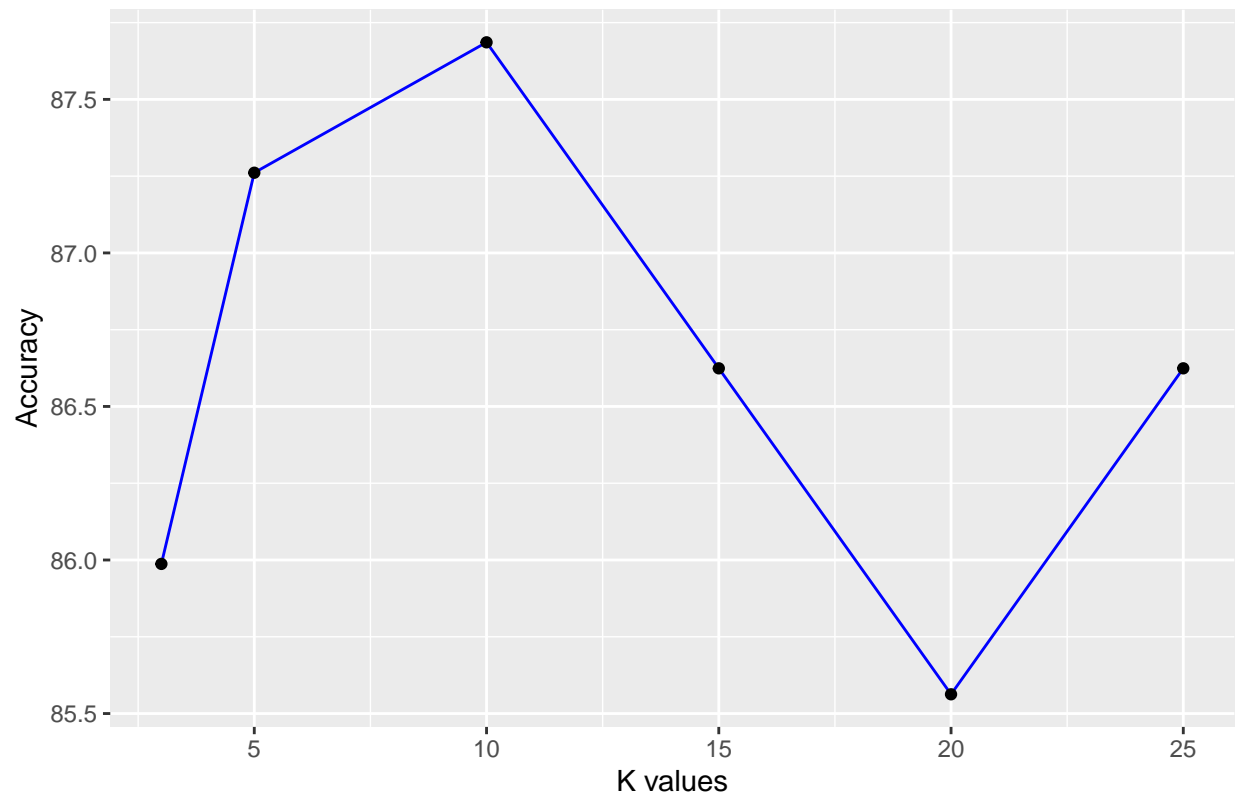
Scatter plot of trinary data



Accuracy at each K value for the binary data set



Accuracy at each K value for the trinary data set



#C

I believe that linear classifiers would not work well with these datasets. If we look at the scatter plots, we can see that a straight line is not optimal to divide the data clusters.