**HW3**

1. The code for this question is in the zip file now we will add the relevant plots:

This is train data plot:

Chart, scatter chart

Description automatically generated

The final parameters we used for the 2 kernels are:

For the rbf we have:

T\_rbf=3

sigma= 2

and the received plot is :

Chart, scatter chart

Description automatically generated

For the poly we have

T\_poly = 8

q=0.1

and the received plot is :

Chart, scatter chart

Description automatically generated

Q2. First we plot an arbitrary sample to plot:

Qr code

Description automatically generated with medium confidence

Now we plot the error% for the test and train set:

Chart

Description automatically generated

As we can see our adaboost classifier manged to fit itself to the data correctly