Project 1: CS 7641

My Name, My Email

December 11, 2014

Introduction

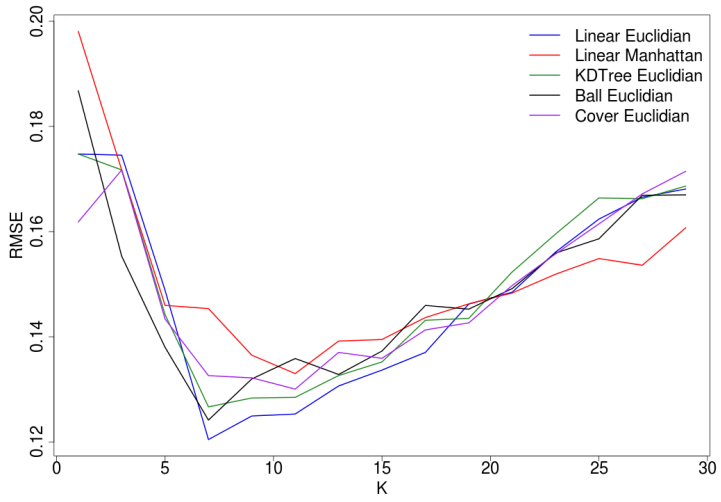
Data acquisition

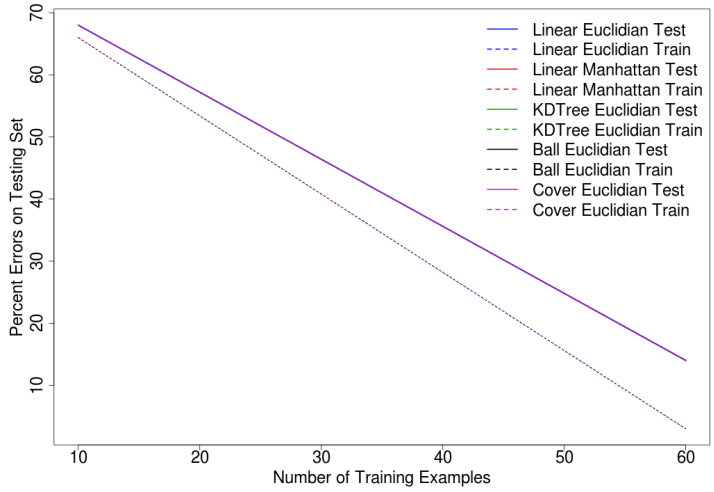
Dataset

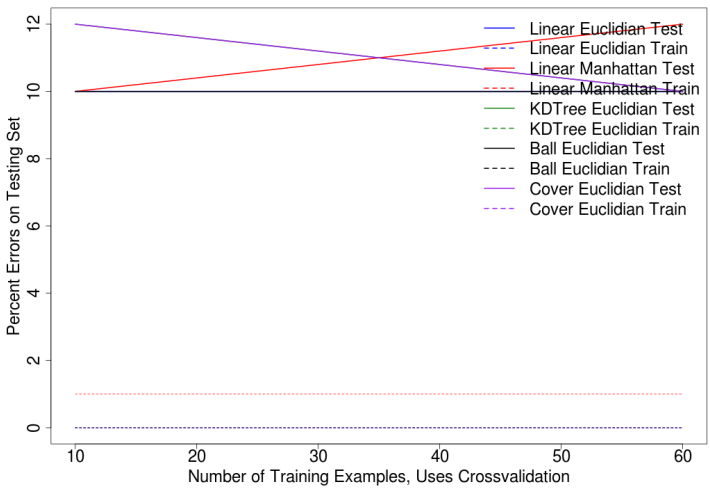
Tools Used and Methodology

K-Nearest Neighbors

Find an optimal K by looking at the plot below. Plug this value of K into the scripts.

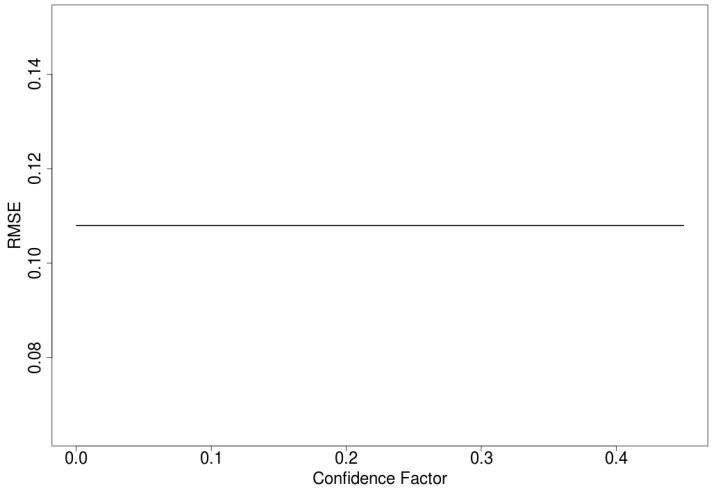


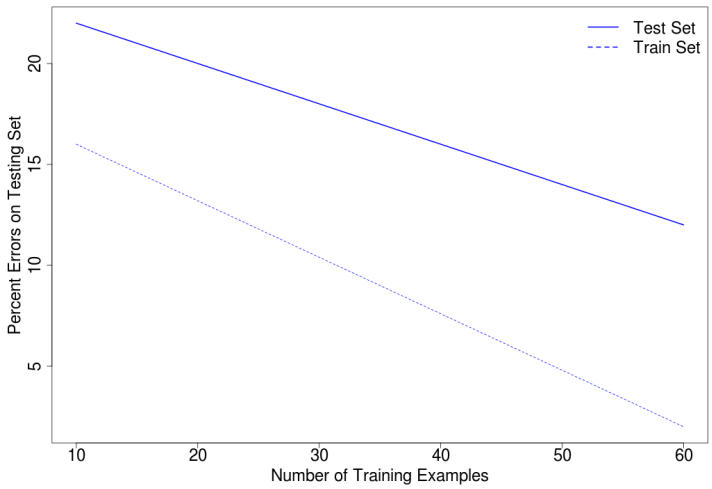


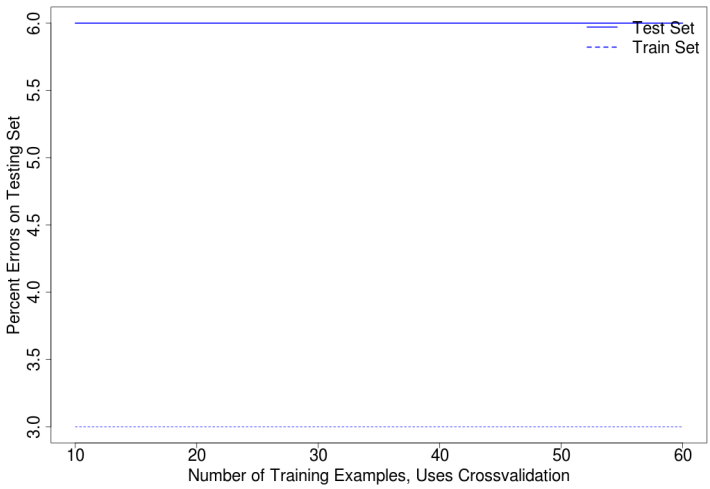


Decision trees with pruning

Find an optimal confidence factor by looking at the below plot. Plug this value into the script. image/j48$_t ree_i ris.pn$

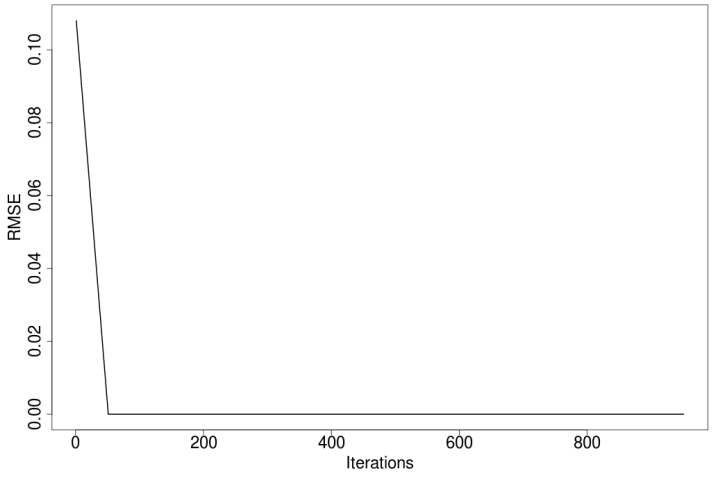


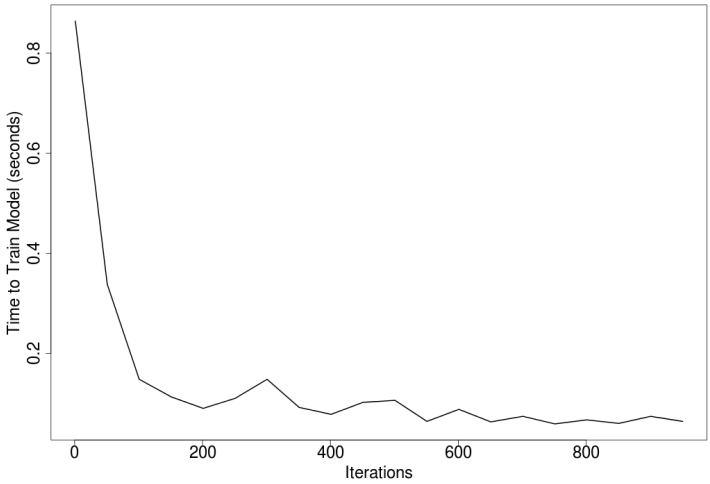


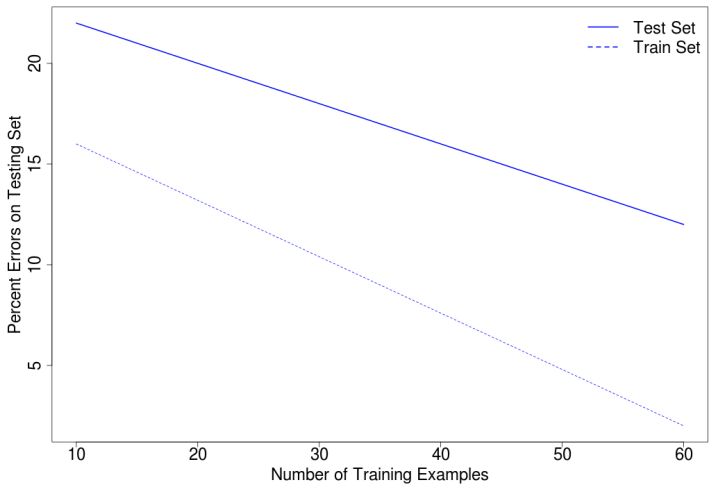


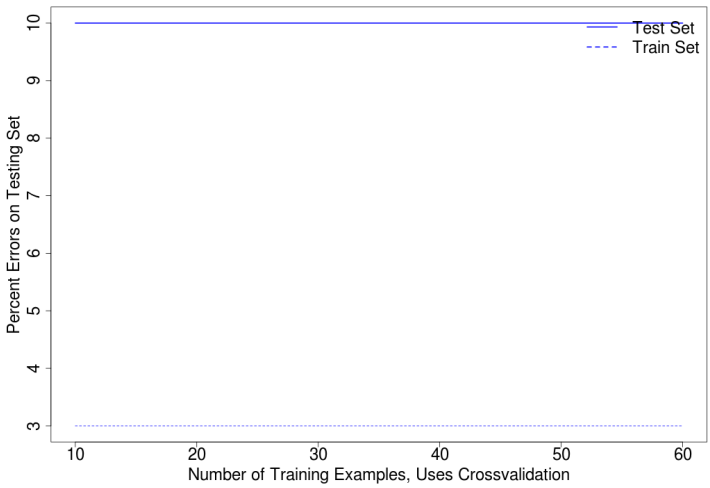
Boosting

Find an optimal value for number of iterations and then plug it into the scripts



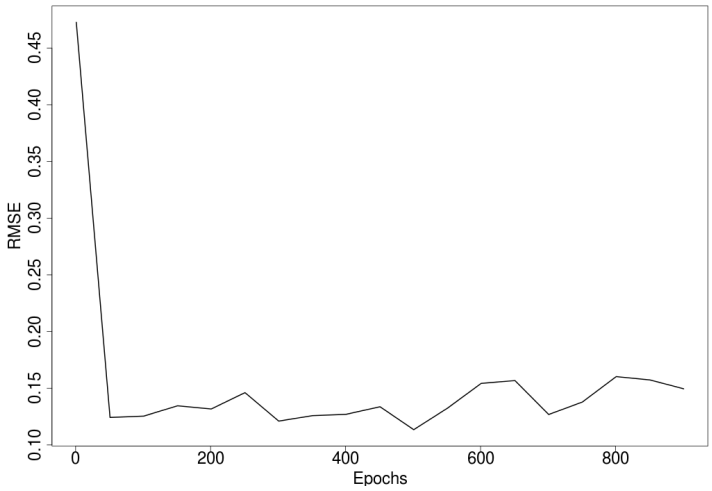


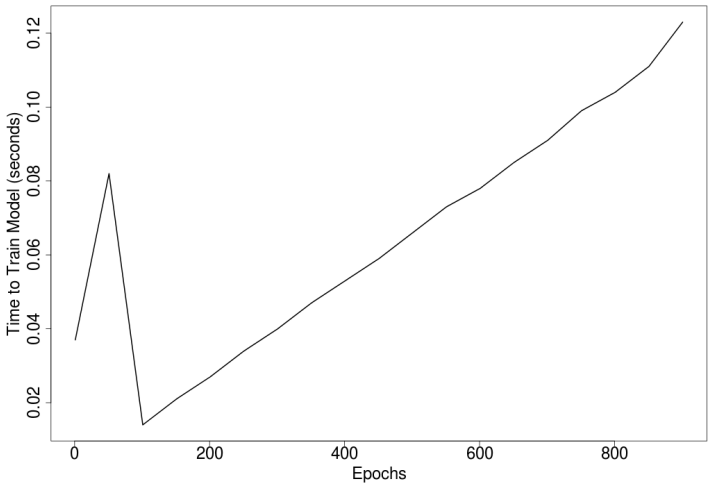


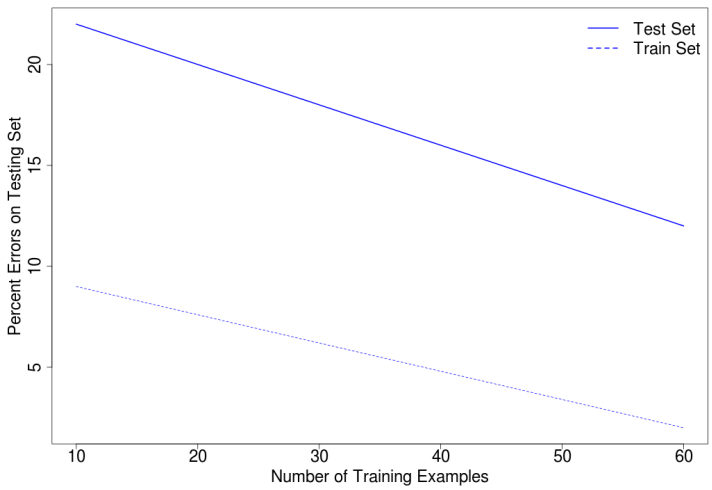


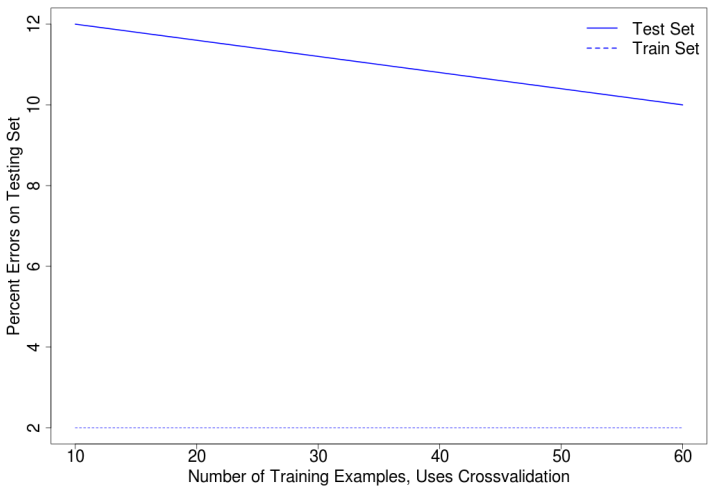
Neural Networks

Find an optimal value for number of epochs. This can help avoid long run times.



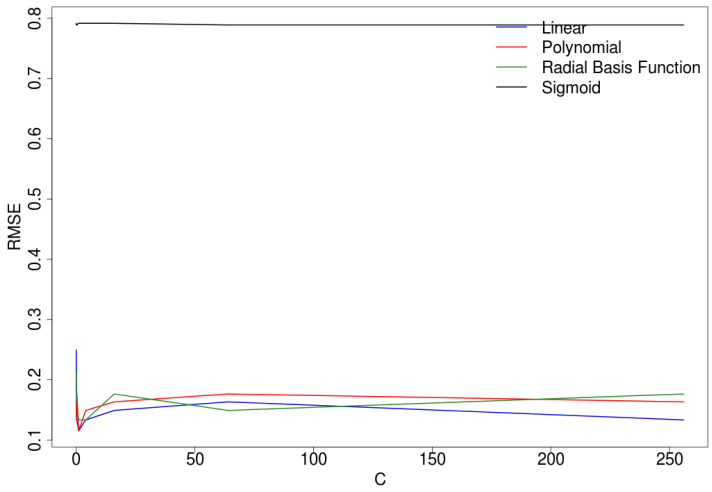


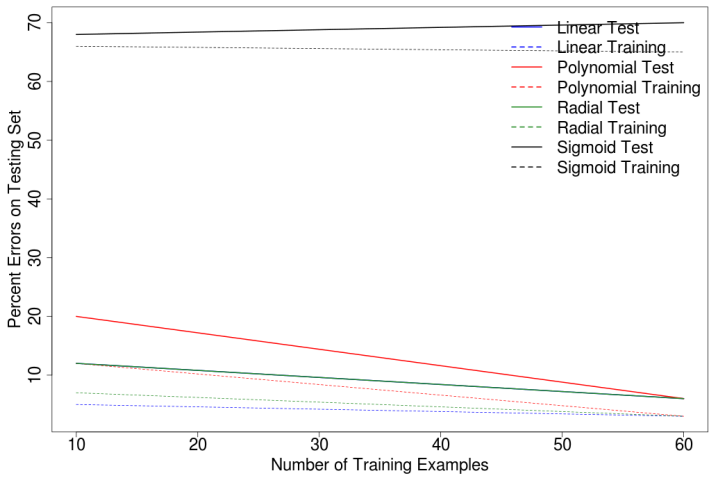


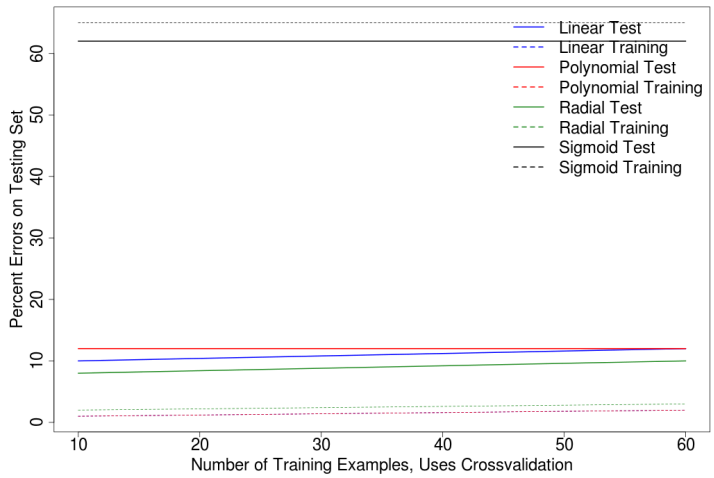


Support Vector Machines

You need to find an optimal value of C and then plug it into the script.


Linear
Polynomial
Radial Basis Function
Sigmoid
RMSE
C


Linear Test
Linear Training
Polynomial Test
Polynomial Training
Radial Test
Radial Training
Sigmoid Test
Sigmoid Training
Percent Errors on Testing Set
Number of Training Examples


Linear Test
Linear Training
Polynomial Test
Polynomial Training
Radial Test
Radial Training
Sigmoid Test
Sigmoid Training
Percent Errors on Testing Set
Number of Training Examples, Uses Crossvalidation

Conclusion