Supervised Machine Learning Analysis

My Name, My Email

December 18, 2014

Introduction

Data acquisition

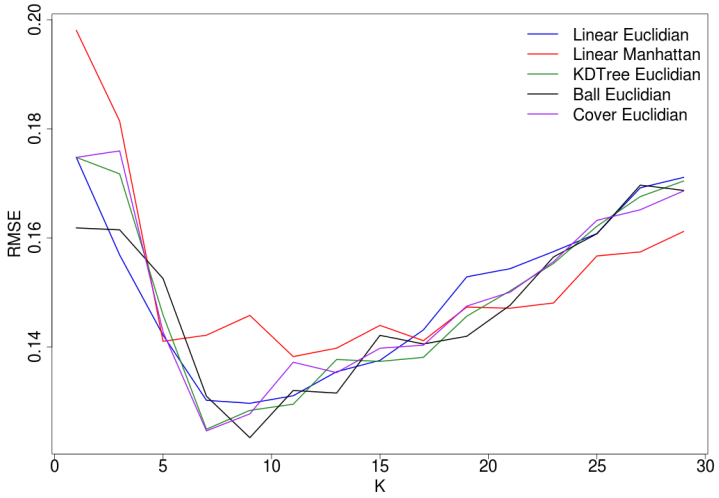
Dataset

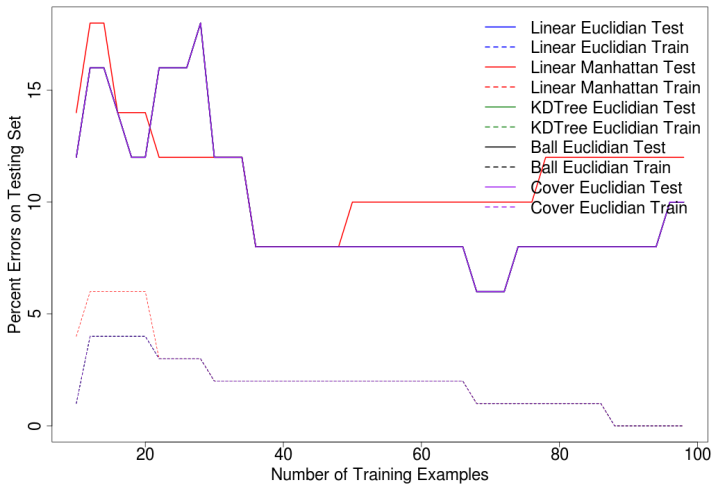
Tools Used and Methodology

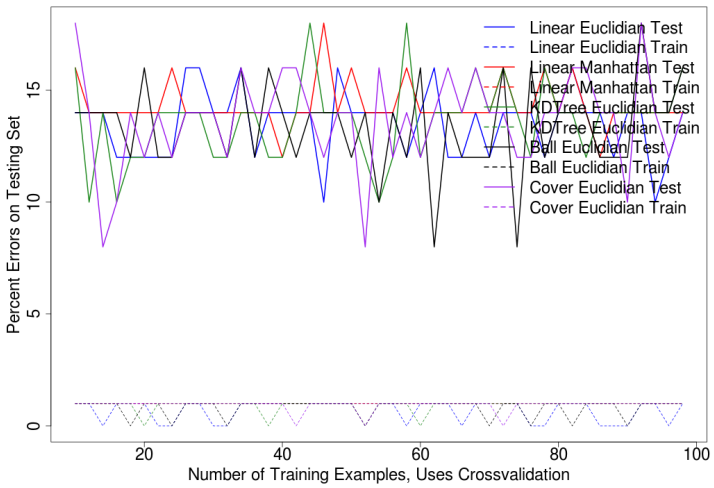
A jython interface to Weka[**?**] is used to generate the plots seen below

K-Nearest Neighbors

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

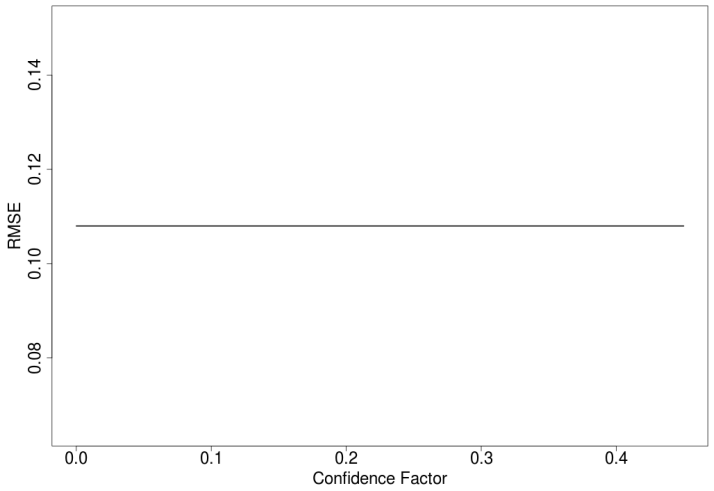






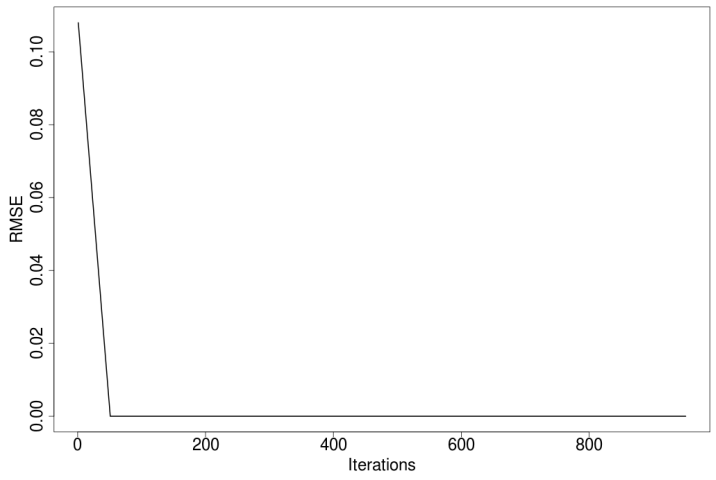
Decision trees with pruning

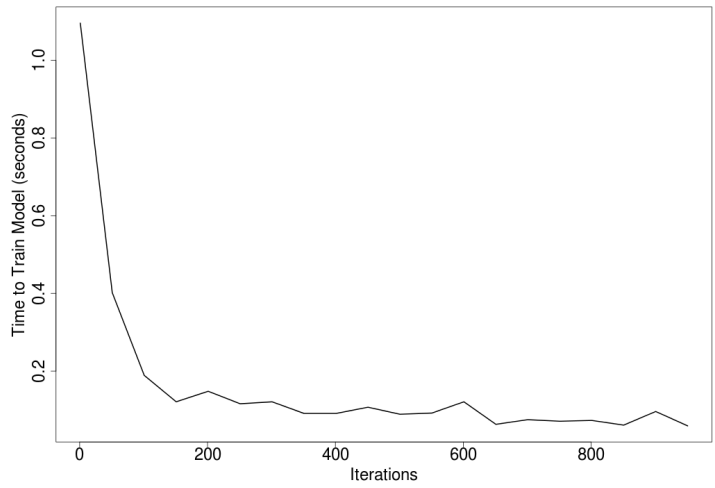
Find an optimal confidence factor by looking at the below plot. Plug this value into ml.properties file.

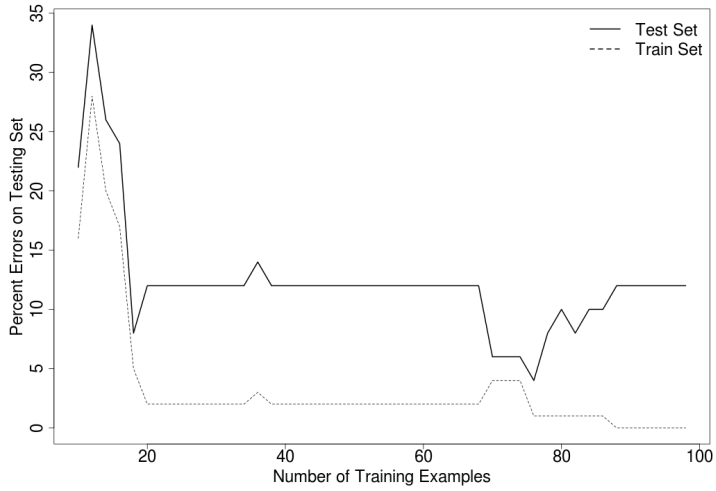


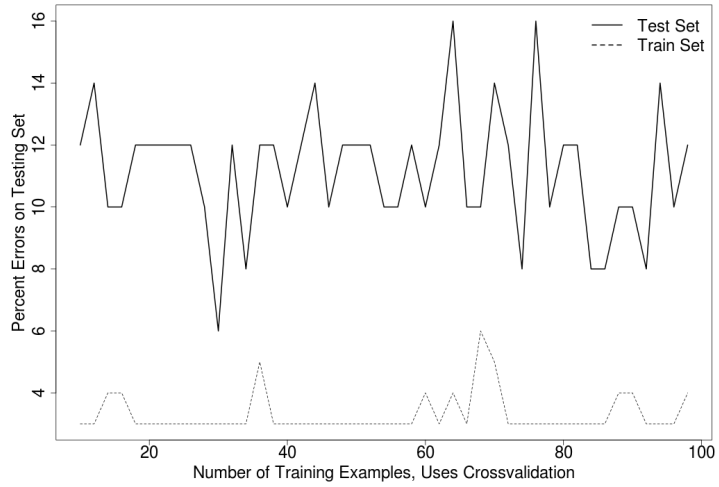
Boosting

Find an optimal value for number of iterations and then plug it into ml.properties file.



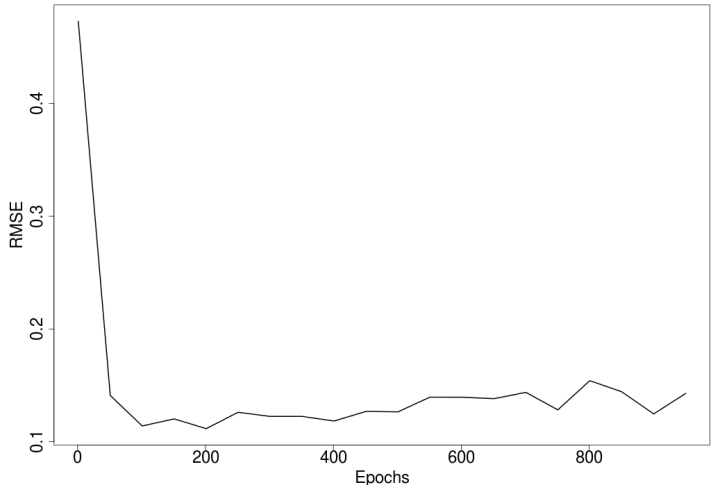


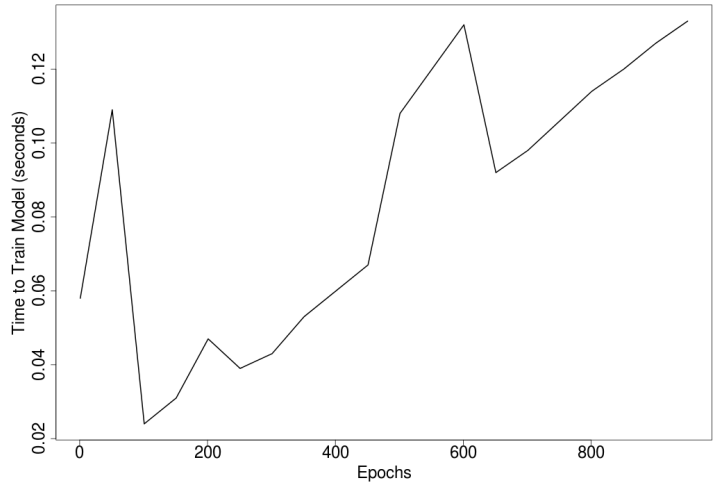


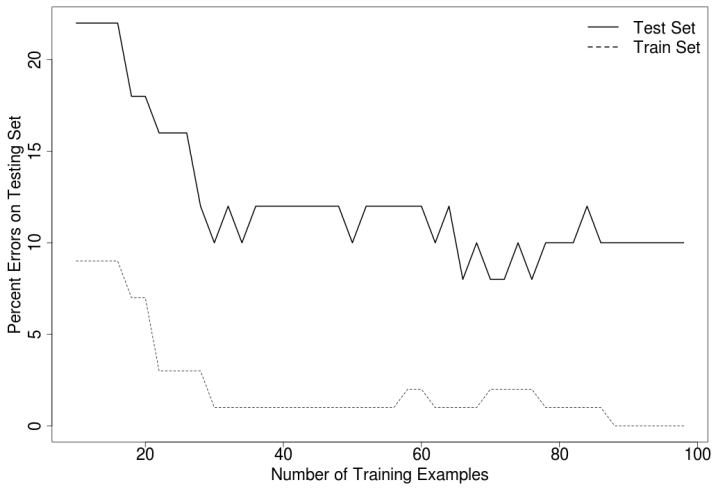


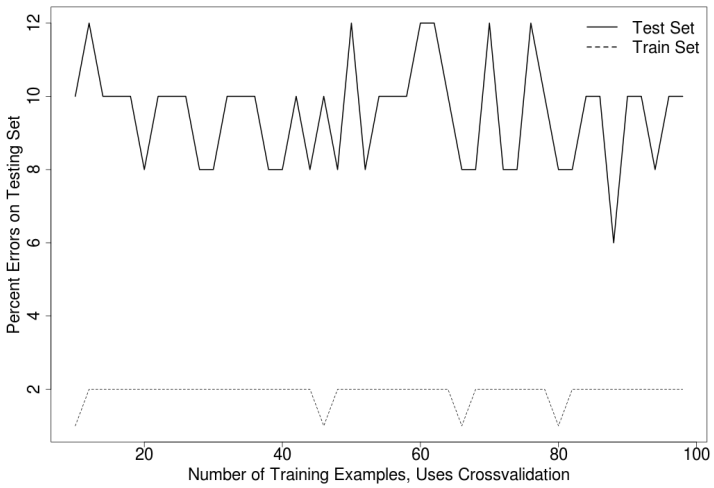
Neural Networks

Find an optimal value for number of epochs and set it in ml.properties file. 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 ml.properties file.