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Machine Learning - CS 4641 - Spring 2018 Semester

Operating System Used: Linux MATE 16.04 LTS

Method/Programming Language Used: Weka 3-8-2 (https://www.cs.waikato.ac.nz/ml/weka/downloading.html)

Command to Run Weka thru Python Terminal from inside the directory -> java -jar weka.jar

Jan 28, 2018

Assignment/Project 1: Supervised Learning

The different values for arguments for each of these algorithms are mentioned in tables in the analysis

Decision Trees With Some Sort Of Pruning: J48 -C 0.25 -M 2 (unprune: False <- By Default)

As shown in detailed anaylsis, I've changed the values for C and M.

Boosting: AdaBoostM1 -P 100 -S 1 -I 10 -W weka.classifiers.trees.J48 -- -C 0.25 -M 2

As shown in detailed anaylsis, I've changed the values for C, M and I (shown in the analysis)

Neural Nets: MultilayerPerceptron -L 0.3 -M 0.2 -N 500 -V 0 -S 0 -E 20 -H a

As shown in detailed anaylsis, I've changed the values for L, M and H (shown in the analysis)

SVM: LibSVM -S 0 -K 2 -D 3 -G 0.0 -R 0.0 -N 0.5 -M 40.0 -C 1.0 -E 0.001 -P 0.1 -model "C:\\Program Files\\Weka-3-8" -seed 1

(I had to download this from the tools.)

As shown in detailed anaylsis, I've changed the values for D, G and K (shown in the analysis)

KNN: IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

As shown in detailed anaylsis, I've changed the values for K and W (shown in the analysis)