

README

Install the following R packages before running using R's `install.packages` command:

`caret`

`klaR`

The contents of the directory should contain the following:

`hw1_a.R`: Script for part A. Run the whole script.

`hw1_b.R`: Script for part B. Run the whole script.

`hw1_c.R`: Script for part C. Run the whole script

`hw1_d.R`: Script for part D. Run whole script. This script uses `SVMLight`, which is in a directory included in this directory.

`hw1.R`: A script to pre-analyze the data such as plotting histograms of features in the dataset. This is not part of the required scripts.

`svm_light`: directory containing `SVMLight` functions.

`pima_indians_diabetes.txt`: dataset of the pima Indians diabetes classification. The description of the dataset can be found at: <http://archive.ics.uci.edu/ml/machine-learning-databases/pima-indians-diabetes/pima-indians-diabetes.names>

All of the script files are independent, meaning that running one script file before the other script file will not make any difference in any script's outcome.

Variable names may overlap between files, meaning that if you run script file A before script file B and want to access variables from script A again most variables would have be overwritten from script B.