

USING WEKA TO EXPERIMENT WITH DIFFERENT CLASSIFIERS

Weka is an open-source Java machine learning package from the University of Waikato. It provides many standard algorithms via both a set of GUIs and as an API for easily incorporating into your own Java projects. You can read more here: <http://www.cs.waikato.ac.nz/ml/weka/>

Make yourself a weka copy by copying `/usr/ccrma/courses/mir2010/weka/weka-3-6-2.zip` and unzipping into `/scratch/`.

Launch weka by running `java -Xms512M -Xmx1024M -jar weka.jar` (Xms and Xmx set the starting and maximum Java virtual machine memory sizes, respectively)

If you want, you can download the Explorer Guide from <http://prdownloads.sourceforge.net/weka/ExplorerGuide-3-5-8.pdf?download> to walk through the features of the GUI, or see other tutorials on the Weka homepage to get started. If you're feeling ambitious, save one of your Matlab feature-extracted datasets as an .CSV file (one datapoint per line, with features followed by the class; see "help csvwrite") and load it into the Explorer to work with it. Try repeating your experiments comparing AdaBoost and kNN using cross-validation.