

Lab 2

CS 6243 – Spring 2005
Tom Bylander, Instructor

assigned February 10, 2005
due March 3, 2005

This lab is intended to help you further understand how Weka algorithms are put together. This lab will finish the Perceptron classifier that I have started.

Currently, Weka does not have an implementation of the perceptron algorithm. For this lab, I have started an implementation of the perceptron algorithm with a margin, which you will finish. The unfinished `Perceptron.java` can be downloaded from the course web site. Everything that has not been fully implemented has a comment that contains “not yet implemented”.

You should be able to put your new `Perceptron.java` in the `weka/classifiers/functions` directory.

Email me your lab with `Perceptron.java` as one attachment. One other attachment (not four more attachments) should be its performance on the simplified glass dataset, the breast-cancer dataset, the hepatitis dataset, and the sonar dataset. Select a learning rate and a number of iterations that provides (relatively) good performance. Only email me once; points will be deducted for multiple emails.