

Computer Science 152, Fall 2006

Assignment 4

Due Wed. 4 October 2006

Implement a stand-alone backpropagation program that conforms to part of the specification in the file `/cs/cs152/data/bp.readme`. The data file format is the same as in previous assignments.

The required parts are:

Functions:

logsig

hardlim

tansig

(Other functions may be provided for extra credit.)

Modes:

on-line

batch

(You may implement Rprop or Quickprop, or both, for extra credit.)

Layers:

arbitrary number

Trace:

optional

In the above-mentioned directory, there is an executable that conforms to the specification. (It is a Sparc binary, so you need to run on turing rather than a linux machine.)

You should give some attention to efficiency issues, as well as making your design easy to modify, in case you want to extend it later.

Submit:

Your code listing

Demonstration of your program working on test13.in