

HW09: Ensembles and efficiency

Hand in at: <http://www.cs.utah.edu/~hal/handin.pl?course=cs726>. Remember that only PDF submissions are accepted. We encourage using L^AT_EX to produce your writeups. See `hw00.tex` for an example of how to do so. You can make a `.pdf` out of the `.tex` by running “`pdflatex hw00.tex`”.

1. For bagging, why is it important to do bootstrap resample (sampling with replacement) rather than sampling without replacement?
2. Derive a stochastic subgradient descent algorithm for a classifier with hinge loss and an 2-norm regularizer. What other algorithm that you know about does this look like?