The objective of this assignment is to reproduce results from a published paper. The particular paper to follow now is *Supervised naive Bayes parameters* by H. Wettig, P. Grünwald, T. Roos, P. Myllymäki, and H. Tirri downloadable at [http://citeseer.ist.psu.edu/574990.html](http://citeseer.ist.psu.edu/574990.html).

I am asking you to reproduce (approximately) some of the results of Table 1. Choose five datasets that you expect to be particularly informative. Implement some or all of the techniques discussed in the paper above. Use the discretized datasets available at [http://www.cs.helsinki.fi/u/pkontkan/Data/](http://www.cs.helsinki.fi/u/pkontkan/Data/) and write your code in Matlab. I am not asking you to replicate exactly the methods of Wettig et al. exactly. You can use different numerical optimization algorithm, different regularization (ie Gaussian or Laplacian priors), and a different crossvalidation procedure.

Compare standard and discriminative NB according to multiple loss functions including 0/1 accuracy and mean squared error.

Be creative!