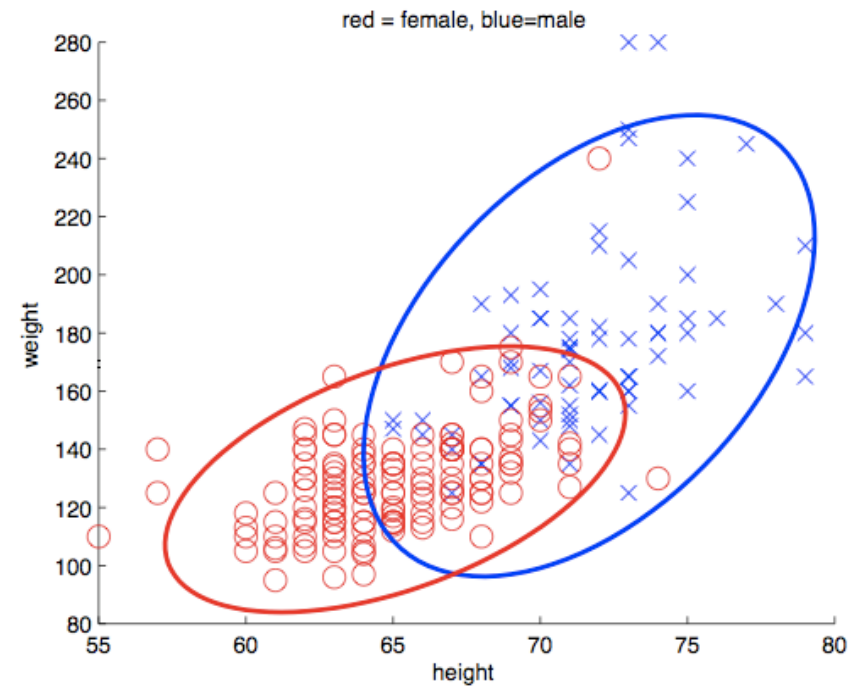
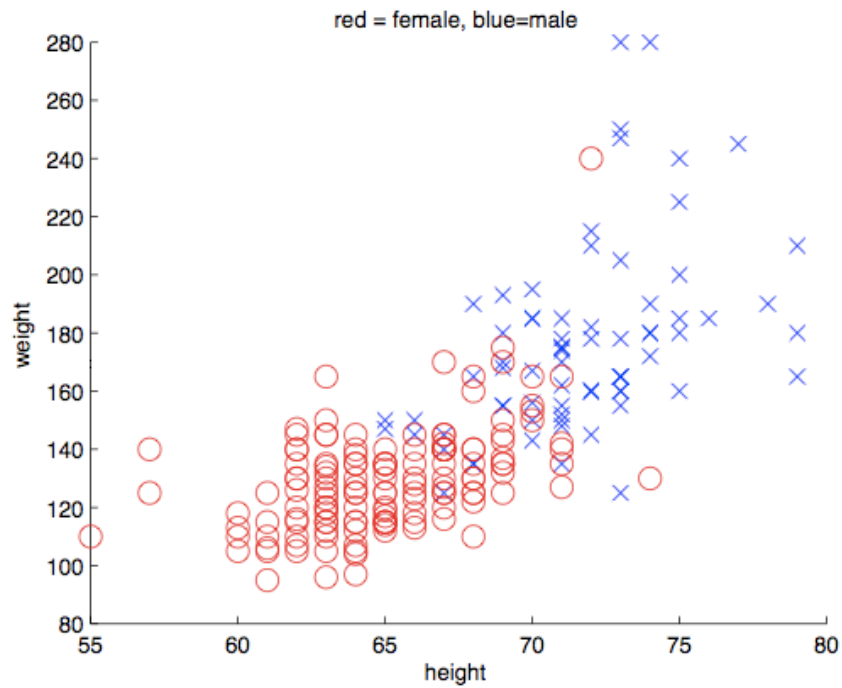
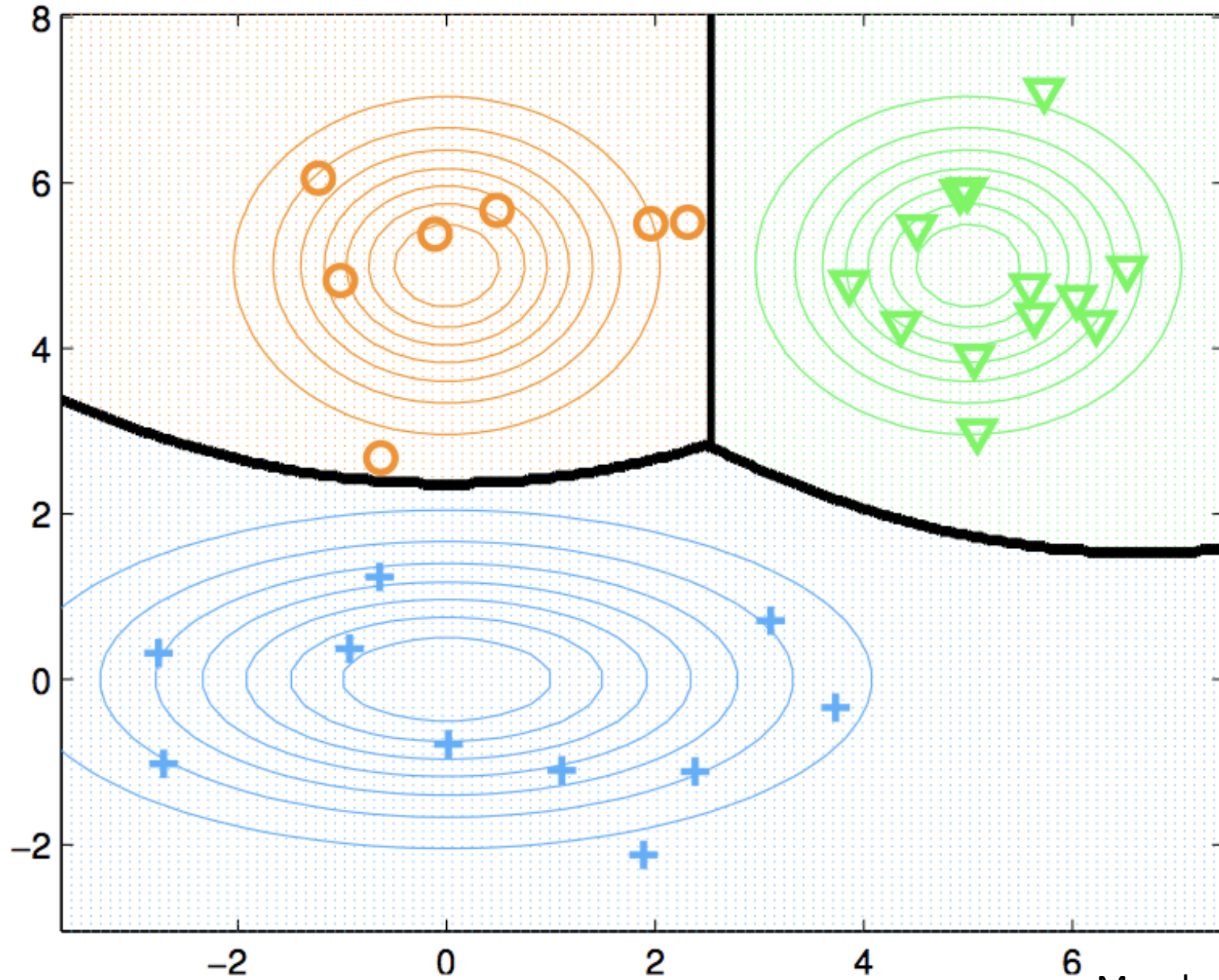


CS194 Fall 2011 Lecture 16
Linear discriminant analysis;
logistic regression revisited

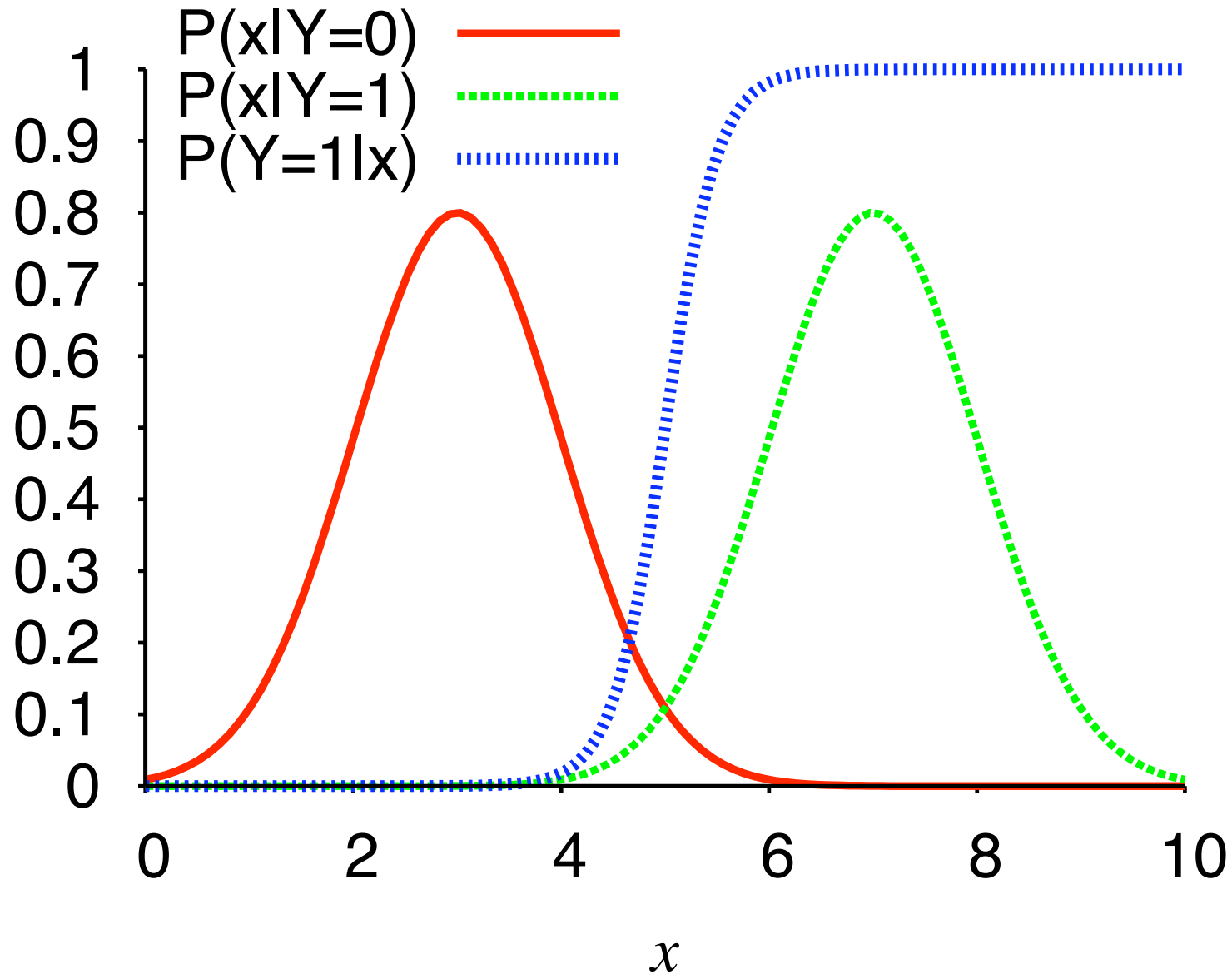
Training in LDA = fitting Gaussians



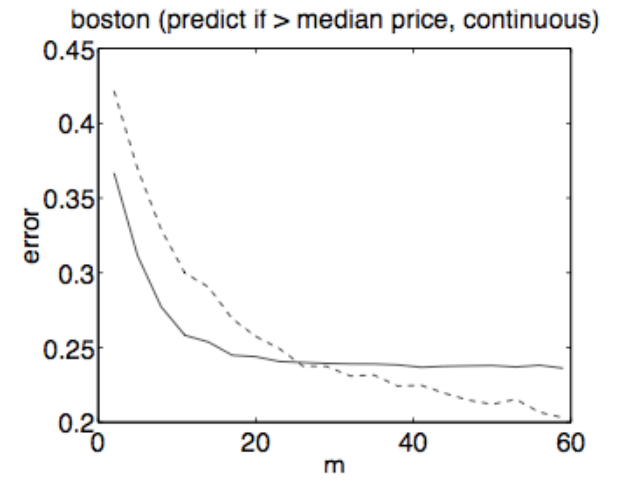
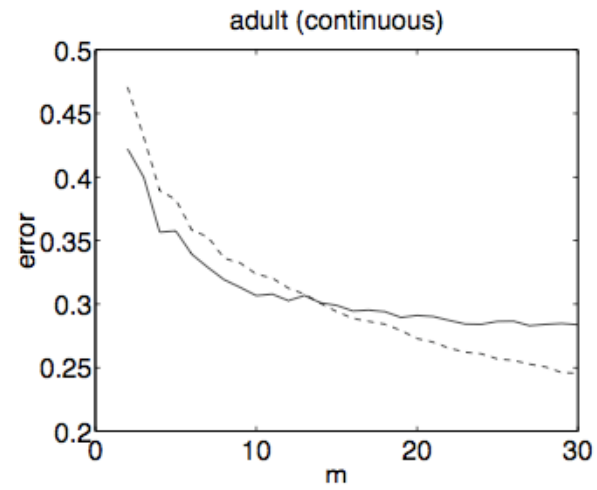
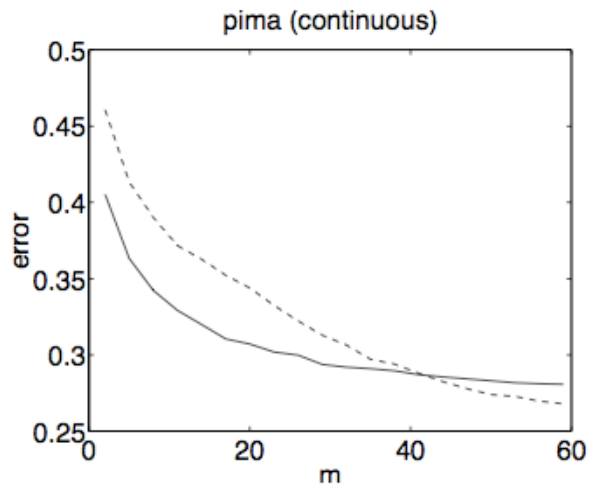
Linear and quadratic separators



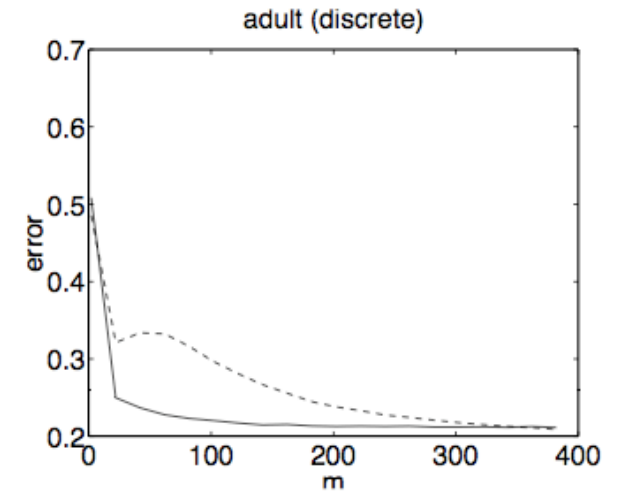
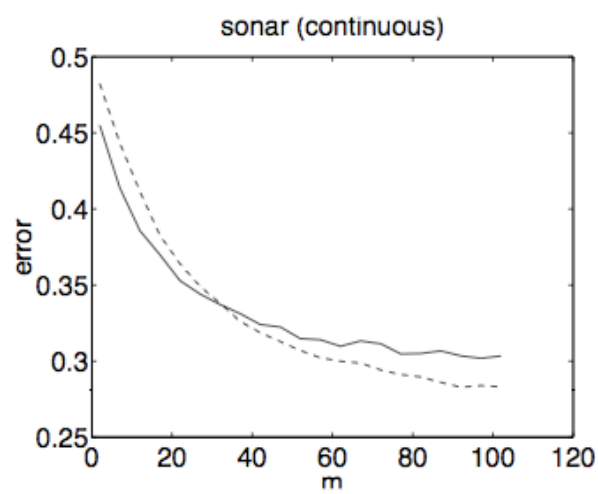
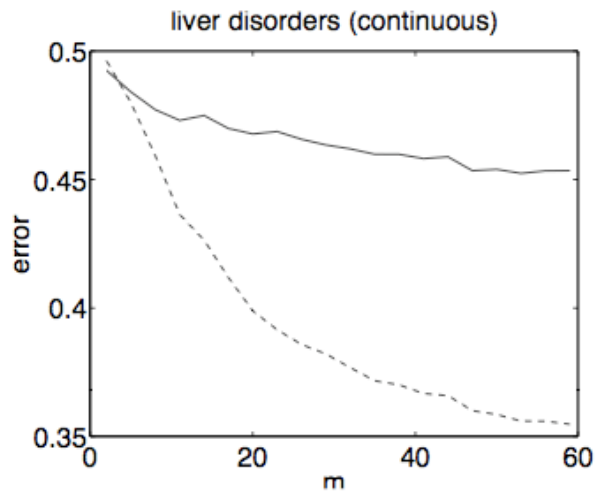
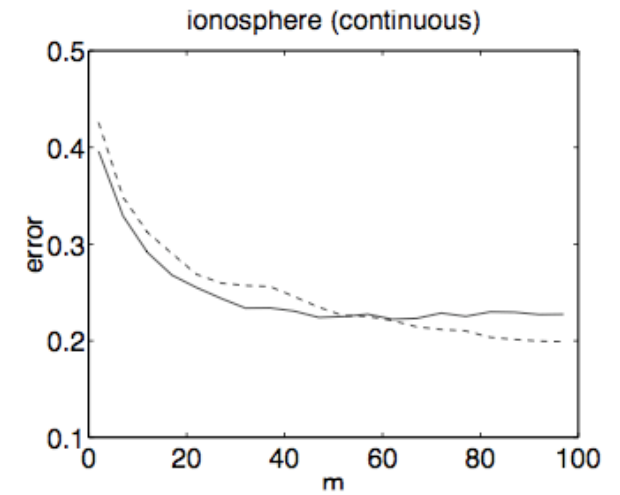
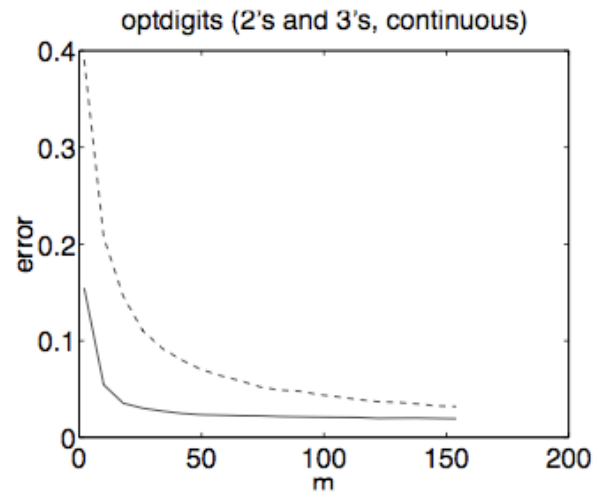
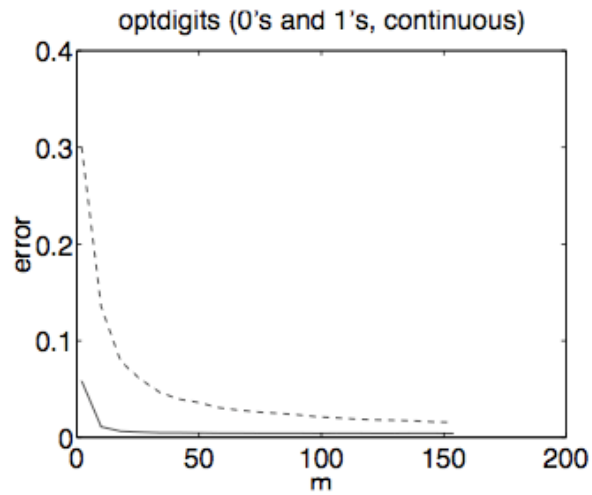
$$P(Y=1|x) = N(x|\mu_1, \sigma^2) / (N(x|\mu_1, \sigma^2) + N(x|\mu_0, \sigma^2))$$



Experiments on UCI data (Ng & Jordan, NIPS 2001)



Experiments on UCI data (Ng & Jordan, NIPS 2001)



Experiments on UCI data (Ng & Jordan, NIPS 2001)

