Machine Learning 6.867 - Pset 2

October 8, 2015

1 Logistic Regression

1.1 Implementation

We implemented L_2-regularized logistic regression using gradient descent.
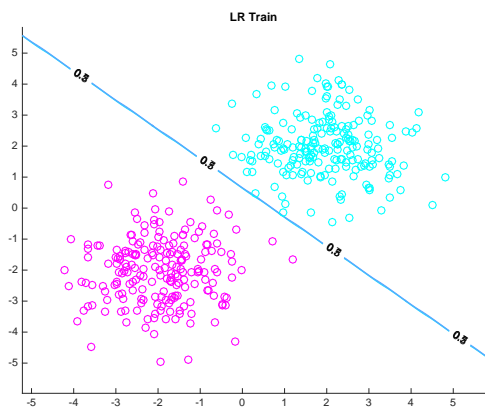
1.2 Testing in data with $\lambda = 0$
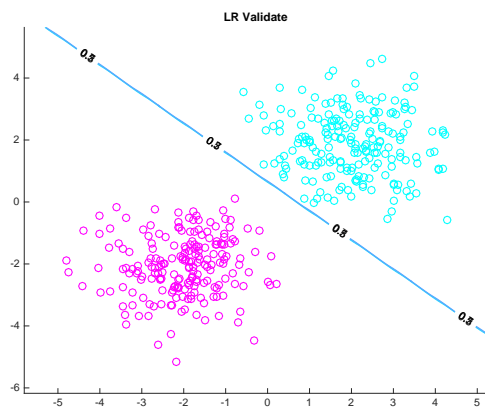
We test the logistic regression

2 Support Vector Machine
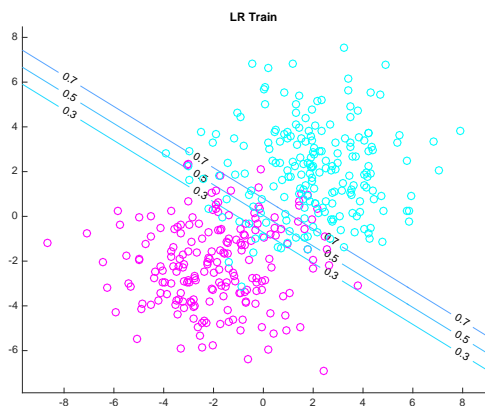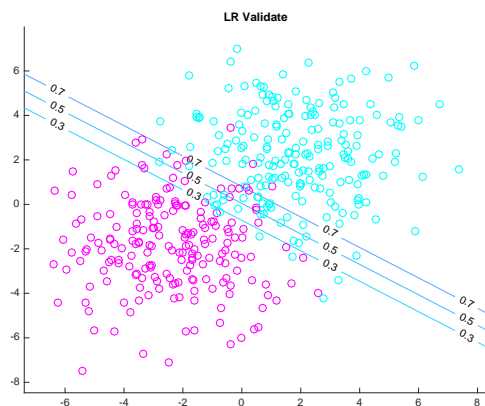
2.1 Implementation

3 Titanic Data

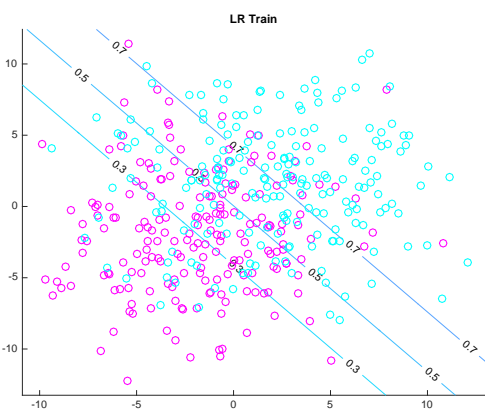(a) Data with $\sigma = 1$, training

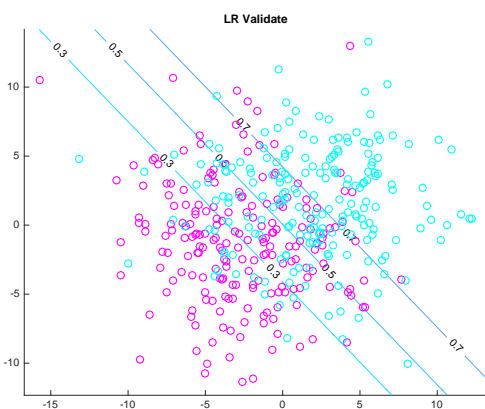(b) Data with $\sigma = 1$, validation
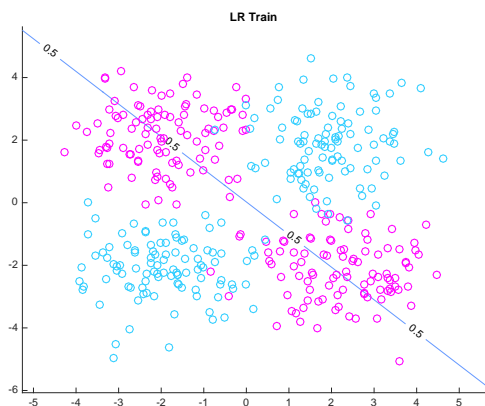
(c) CData with $\sigma = 2$, training

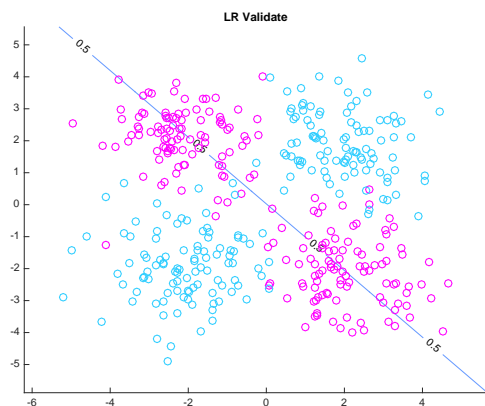(d) CData with $\sigma = 2$, validation

(e) Data with $\sigma = 4$, training

(f) Data with $\sigma = 4$, validation

(g) Non-seperable data, training

(h) Non-seperable data, validation

2