CSCI-567: Assignment #4

Due on Monday, November 9, 2015

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Contents

Problem 1

Problem 1: (a) Gradient Calculation

$$L(y_i, \hat{y_i}) = \log(1 + exp(-y_i\hat{y_i}))$$

$$g_i = \frac{\partial L(y_i, \hat{y_i})}{\partial y_i}$$

$$= \frac{-y_i exp(-y_i\hat{y_i})}{1 + exp(-y_i\hat{y_i})}$$

Problem 1: (b) Weak Learner Section