

(L1) 0-1 loss function aka misclassification error $\sum_{i=1}^n (1 - \text{sign}(y_i z_i))/2$,

(L2) squared loss function $\sum_{i=1}^n (y_i - z_i)^2$, or

(L3) logistic loss function $\sum_{i=1}^n \log(1 + \exp(-y_i z_i))$.

- (a) (2 points) The 0-1 loss function is the most intuitive choice to build a good classifier. What value of w will lead to such a good classifier for this dataset: $w = 0$ or $w = 1$?