Binary Cross Entropy

$$l(\beta_0, \beta_1) = -\frac{1}{n}\sum_{i=1}^{n} y_i \log(p(x_i)) + (1 - y_i)\log(1 - p(x_i))$$

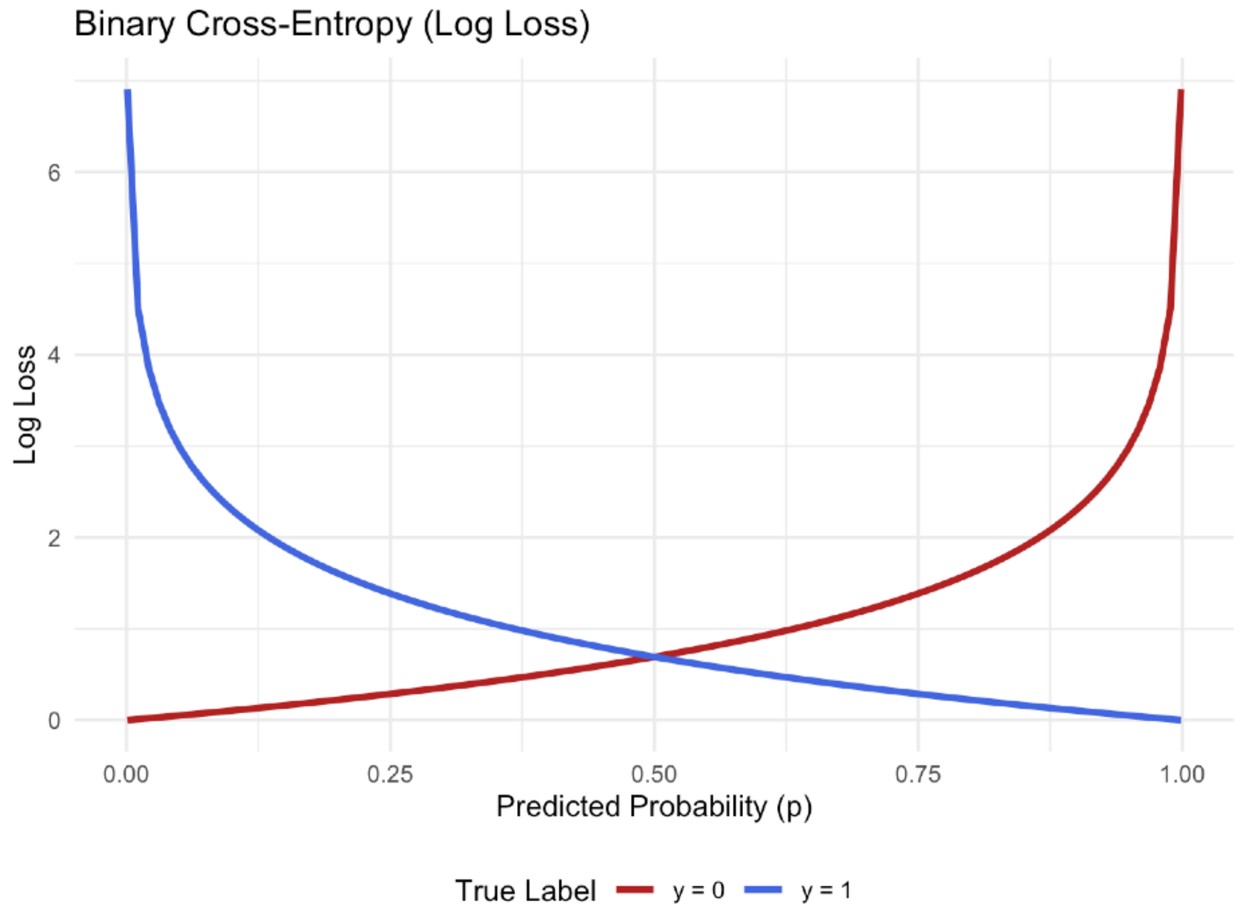
Loss function

Binary Cross-Entropy (Log Loss)
Log Loss
6
4
2
0
0.00
0.25
0.50
0.75
1.00
Predicted Probability (p)
True Label
y = 0
y = 1

Binary Cross Entropy

$$l(\beta_0, \beta_1) = -\frac{1}{n} \sum_{i=1}^{n} y_i \log(p(x_i)) + (1 - y_i) \log(1 - p(x_i))$$

Loss function



Assessing Model Performance