Binary Cross-Entropy Loss

$$\mathcal{L} = -[y\log(p) + (1-y)\log(1-p)]$$

Legend: y=1: -log(p); y=0: -log(1-p)

High loss when p close to 0

High loss when p close to 1

Low loss when p close to 0

Low loss when p close to 1

Loss (y-axis), Predicted Probability (p) (x-axis)