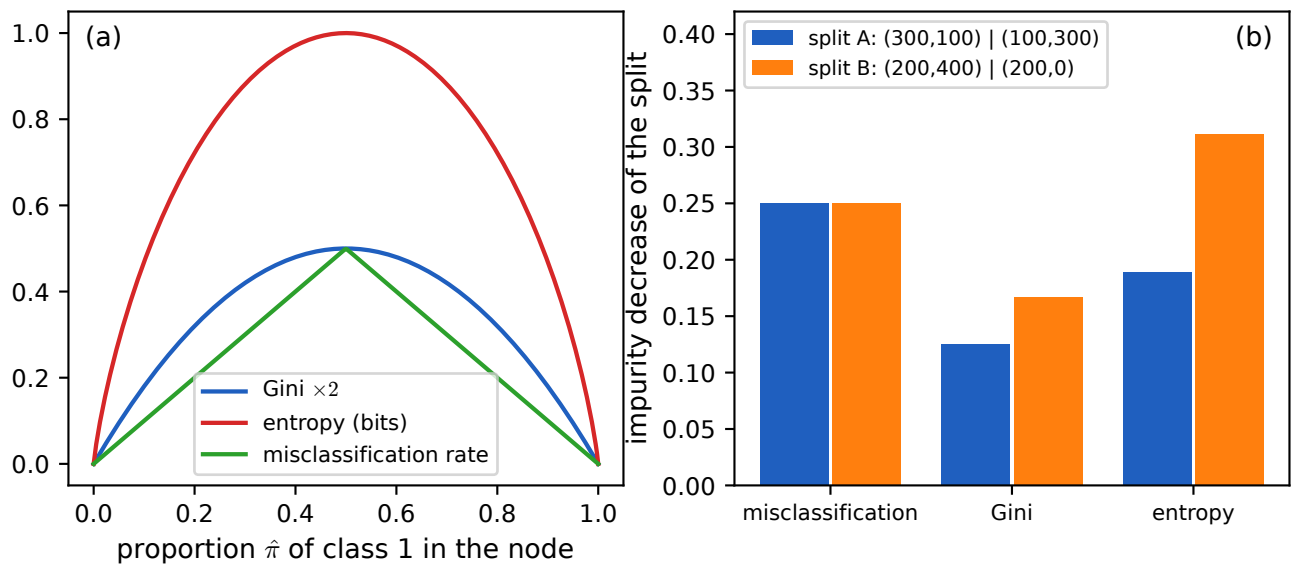

(a)
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
Gini ×2
entropy (bits)
misclassification rate
proportion $\hat{\pi}$ of class 1 in the node
(b)
split A: (300,100) | (100,300)
split B: (200,400) | (200,0)
impurity decrease of the split
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
misclassification
Gini
entropy