

Classification Trees

Wednesday, June 28, 2023 6:17 PM

$$gini = \sum_i p_i(1-p_i)$$

A	B
35	65

$$\begin{aligned}
 p_1 &= 0.35 & p_2 &= 0.65 \\
 gini &= p_1(1-p_1) + p_2(1-p_2) \\
 &= 0.35(0.65) + 0.65(0.35) \\
 &= 0.455
 \end{aligned}$$

A	B
25	75

$$\begin{aligned}
 p_1 &= 0.25 & p_2 &= 0.75 \\
 gini &= 0.375
 \end{aligned}$$

A	B
10	90

$$gini = 0.18$$





