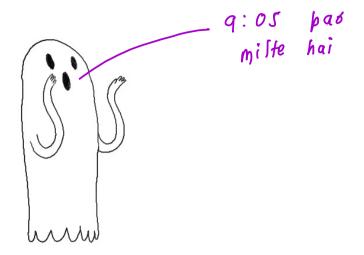
Decision tree 2



Entropy

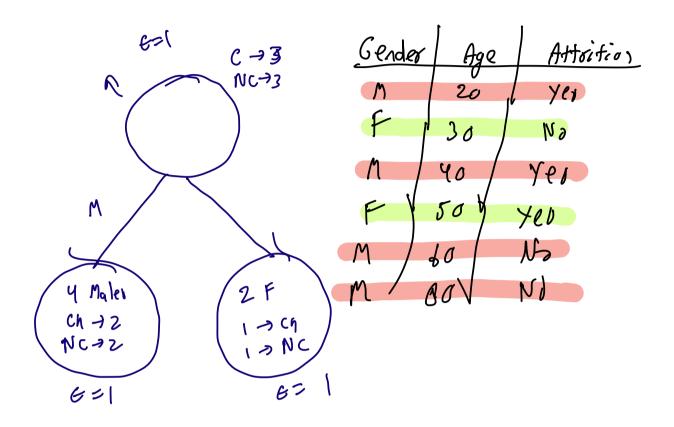
Age
$$730$$
 $30c$ & 10 c

Impurity

H(y)= - p log p - (1-p) log(1-p)

entropy (y):

$$y \cdot \text{value} - \text{counts ()}$$
 $y \cdot \text{value} - \text{counts ()}$
 $y \cdot \text{value} -$



Gini Index
$$-\frac{1}{2}\log p$$

$$\int_{1}^{2} \left(\frac{1}{2}\left(\frac{1}{2}\right)^{2}\right)^{2} = \int_{1}^{2} \left(\frac{1}{2}\left(\frac{1}{2}\right)^{2}\right)^{2}$$

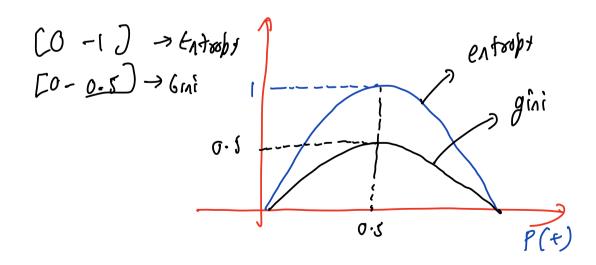
2 class:
$$1 - \left[\frac{1}{p(y_i = 1)^2} + \frac{1}{p(y_i = 0)^2} \right]$$
Case 1:

Case 2;

$$P(+) = 1$$
 = 0
 $P(-) = 0$

$$= 1 - [(1)^{2} + (0)^{2}]$$

= 0



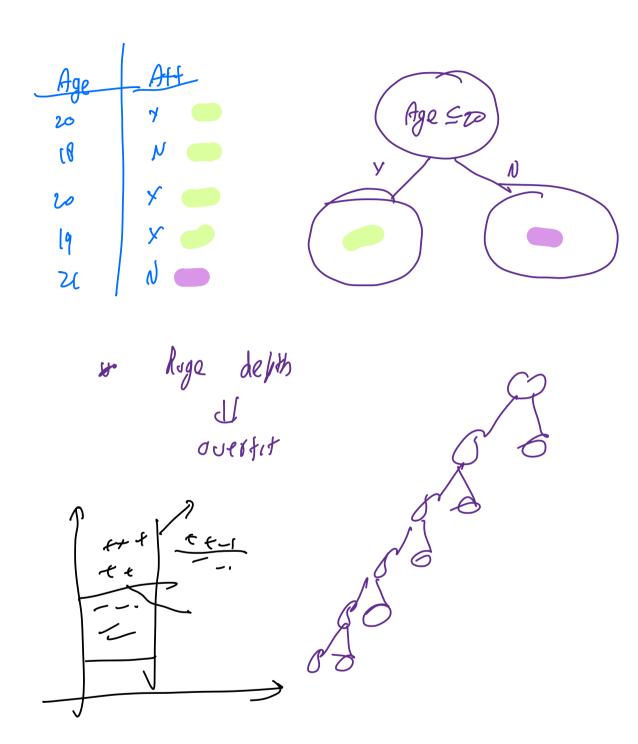
BE&K 10: 11

Ablit Nunexilae Column

$$(3) f_{2} \leq 3-1$$

$$T \leq (2) T \leq 2$$

$$T \leq (2) T$$



Shallow tree

Deep Free

Train CU Test

