Decision trees

$$S_{n,1} = 4$$

$$S_{n}, \lambda = 6$$

$$r = 4$$

$$g = 0$$

$$b = 4$$

 $\sum_{i=1}^{n} \frac{|s|}{|c_{i}|} \cdot \left(1 - \frac{|s|}{|c_{i}|}\right)$ the Entropy impurity Heof 5 $-1 \cdot \sum_{i=1}^{\lfloor s \rfloor} \cdot \log_2(\frac{|S|}{ki})$ for a node Si that splik inlo the Information Gain for Si $= H(S_i) - \sum_{i=1}^{2} \frac{|S_i^i|}{|S_j|} \cdot H(S_j^i)$