

→ Imp term

↳ 0) ENTROPY

Techno Example

$$Y \rightarrow Y_1 \ Y_2 \ \dots \ Y_k$$

$$H(Y) = - \sum_{i=1}^k p(y_i) \cdot \log(p(y_i)) \quad b \geq 2$$



$$H = -\sum p_i \log p_i$$

$$Y$$

$$p_1, p_2, \dots, p_k$$

$$H(Y) = - \frac{3}{4} \log\left(\frac{1}{4}\right) - \frac{5}{14} \log\left(\frac{5}{14}\right) - \frac{1}{14} \log\left(\frac{1}{14}\right)$$

$$H(Y) = 0.944$$



