

Entropy

Highest Purity

Highert Impure

128 cc

Care

best

$$\mathcal{E} = -\frac{5}{5} P_{1} \log P_{1} \\
= -1 \log \frac{1}{5} \\
= 0$$

$$\begin{aligned}
\varepsilon &= -\frac{1}{4} \log_2 \frac{1}{4} - \frac{1}{4} \log_2 \frac{1}{4} \\
\varepsilon &= 1
\end{aligned}$$

Real time we-carel

- Gini Inder - Slower training time

4 Entropy - balanced decision tree

MSE -> 1/2 Decision Tree

Regressor

Leaf Node -> Prediction of

the

Continuous

Ualue