calculating the entropy of Target

Variable "taste". I starget

Taste = "Meh" = 5

= "Yummy" = 5 Entropy (S) = - (Polog2Po) + Polog2Po)  $= -\begin{bmatrix} 5 & \log_2 5 & + & 5 & \log_2 5 \\ 10 & 10 & 10 & 10 \end{bmatrix}$   $= -\begin{bmatrix} 1 & \log(0.5) + 1 & \log_2(0.5) \\ 2 & 2 & 2 \end{bmatrix}$  $= - \left[ \frac{1}{2} (-1) + \frac{1}{2} (-1) \right]$ 10 Entre 4 CS Many) mere is impurity of 100% as it is Visual defects parameter We have the Entropy of target variable on i for taste variable calculating Entropy for the variable Visual defects.



