Overcost 4 samples 4 yes, 0 No

Entropy (overcost) = +4) · (0y(4) - (2) * loy2(4) = 0.

No into gain since it's all yes.

Vainy 5 sumples 3 yes, 2NO

Entropy (rainy) = $-(\frac{3}{5})\log_2(\frac{3}{5}) - (\frac{2}{5})(\log_2(\frac{2}{5}))$

= 0-442 +0.529 = 0.971

Temperature mild 3 cool 2

yes 2 NOI Yes, NOI

Gain(rainy, temp) = 0.971 - $\left[\frac{3}{5}\left(-\frac{2}{3}\log_2(\frac{2}{3}) - \frac{1}{3}\log_2(\frac{1}{3})\right)\right]$

2 0.971 - 0.951 20.02

the Humiditity High 2 Normal 3

Tes 1 No

Yes 2 NO