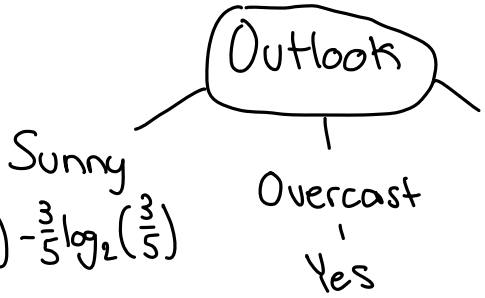

$E(\text{Sunny}) = -\frac{2}{5}\log_2\left(\frac{2}{5}\right) - \frac{3}{5}\log_2\left(\frac{3}{5}\right)$

$= 0.971$

$E(\text{Sunny} \mid \text{Temp.}) = \left(\frac{2}{5}\cdot 0\right) + \left(\frac{2}{5}\cdot 1\right) + \left(\frac{1}{5}\cdot 0\right) = 0.4$

$= 0.971 - 0.4 = 0.571$

$E(\text{Sunny} \mid \text{Humidity}) = \left(\frac{3}{5}\cdot 0\right) + \left(\frac{2}{5}\cdot 0\right) = 0$

$= 0.971 - 0 = 0.971 \leftarrow$ Best

$E(\text{Sunny} \mid \text{Wind}) = \left(\frac{2}{5}\cdot 0\right) + \left(\frac{3}{5}\cdot 0.918\right) = 0.551$

$= 0.971 - 0.551 = 0.420$

$E(\text{Rain}) = -\frac{3}{5}\log_2\left(\frac{3}{5}\right) - \left(\frac{2}{5}\right)\log_2\left(\frac{2}{5}\right) = 0.971$

$E(\text{Rain} \mid \text{Temp}) = \left(\frac{3}{5}\cdot 0.918\right) + \left(\frac{2}{5}\cdot 1\right) = 0.951$

$= 0.971 - 0.951 = 0.020$

$E(\text{Rain} \mid \text{Humidity}) = \left(\frac{2}{5}\cdot 1\right) + \left(\frac{3}{5}\cdot 0.918\right)$

$= 0.951$

$= 0.971 - 0.951 = 0.020$

$E(\text{Rain} \mid \text{Wind}) = \left(\frac{3}{5}\cdot 0\right) + \left(\frac{2}{5}\cdot 0\right) = 0$

$= 0.971 - 0 = 0.971 \leftarrow$ Best