

KUIS 1 - DATA MINING

Perhitungan Entropy dan Information Gain

Dataset Play Tennis terdiri dari 14 data.
Jumlah data Play = 10 dan Don't Play = 4.

Entropy Total

$$\text{Entropy}(S) = 0.940$$

Information Gain

$$\begin{aligned}\text{Gain(Outlook)} &= 0.246 \\ \text{Gain(Humidity)} &= 0.448 \\ \text{Gain(Windy)} &= 0.048 \\ \text{Gain(Temperature)} &= 0.029\end{aligned}$$

Atribut dengan gain terbesar adalah Humidity

Pohon Keputusan

Jika Humidity = High maka Don't Play
Jika Humidity = Normal maka Play