#	Atribut	£		kelas
No	Cuala	Pensahaan	Kapal	
l	Ceroch	besar	real	ya ·
2	hijan	(ceal	hesar	polale
3	Cesah	sedarz	ke ed	·ya.
4	hujan	beson	besar	ya
5	hnjan	leec l	lecci1	tidole
6	couh	Sedang	besar	ya
7	hyan	Sedang	Keeil	ya
8	Cerch	Kecil	Kecil	· ya
9	Ceah	beson	hesas	ya
10	mjan	sedong	beson	trobale.

Tugas 1F6080 muhammad Anwart Lelesone 235 20050

fumlah label 'Ya' : 7 Jumlah label 'Tidak' : 3 Entropo (S) = -Per log 2 Per -Perlog 2 Per = -(7) lug 2(7) -(2) lug 2 (3) = 0,880

Penentuan Aber Pohon.

Pensahaan. tapal Cuaca sedang Corch hujan besas Kegil holal: 2 tidah: 3 tidak:1 tidale: 0 holak: 3 hidah:3 table: 2 19: 3 ya: 4 ya: 0 ya; 2 ya: 5 ya:1 ya:1

$$\begin{aligned} &\text{Gain}(S, \text{Chaca}) = \text{thropi}(S) - \sum_{\S \text{Ceroh}, \text{huyon}} \frac{|S_V|}{S} \text{ Entropi}(S_V). \\ &= 0,880 - \frac{5}{10} \text{ Entropi}(S_{\text{Cunca}} = \text{ceroh}) - \frac{5}{10} \text{ Entropi}(S_{\text{cuaca}} = \text{huyon}) \\ &\text{Entropi}(S_{\text{cuaca}} = \text{ceroh}) = -\frac{5}{5} \log_2 \left(\frac{5}{10}\right) - \frac{1}{5} \log_2 \left(\frac{5}{10}\right) = 0 \\ &\text{Entropi}(S_{\text{cuaca}} = \text{huyon}) = -\left(\frac{2}{5}\right) \log_2 \left(\frac{2}{5}\right) - \left(\frac{3}{5}\right) \log_2 \left(\frac{3}{5}\right) = 0,970 \\ &\text{Gain}(S, \text{Chaca}) = 0,880 - \frac{5}{10} \cdot 0 - \frac{5}{10} \cdot 0,970 = 0,312 \\ &\text{Entropi}(S_{\text{punciation}} = \text{leeg}(1)) = -\left(\frac{1}{3}\right) \log_2 \left(\frac{1}{3}\right) - \left(\frac{2}{3}\right) \log_2 \left(\frac{2}{3}\right) = 0,918 \end{aligned}$$

Entropi (Spanishoon = kecil) =
$$-(\frac{1}{3})\log_2(\frac{1}{3}) - (\frac{2}{3})\log_2(\frac{2}{3}) = 0.918$$

Entropi (Spanishoon = sedorg) = $-(\frac{1}{4})\log_2(\frac{1}{4}) - (\frac{2}{3})\log_2(\frac{2}{4}) = 0.811$

Entropi (Spersohan = besor) = 0

9ain (Sipensahaan) = 0,880 - 3 Entropi (Spansahan = leecil) - 4 Entropi (Spensahaan = folong) - 3 Fhtopi (Sponyaham = bosor) = 0,880 - 3.0,918 - 4.0,811 -0 = 0,280

Entropy (Skepal = teal) =
$$-\frac{4}{5}\log_2\frac{4}{5} - \frac{1}{5}\log_2\frac{1}{5} = 0,721$$

Entropy (Stepal = beson) = $-\frac{3}{5}\log_2\frac{3}{5} - \frac{2}{5}\log_2\frac{1}{5} = 0,970$
Gain (S, production) = $0,280 - \frac{5}{10} \cdot 0,9721 - \frac{5}{10} \cdot 0,970 = 0,0345$

garn pating beson didepathan den- atorbut Chaca, Colhyga mot node adaloh Chaca.

