1) ccision

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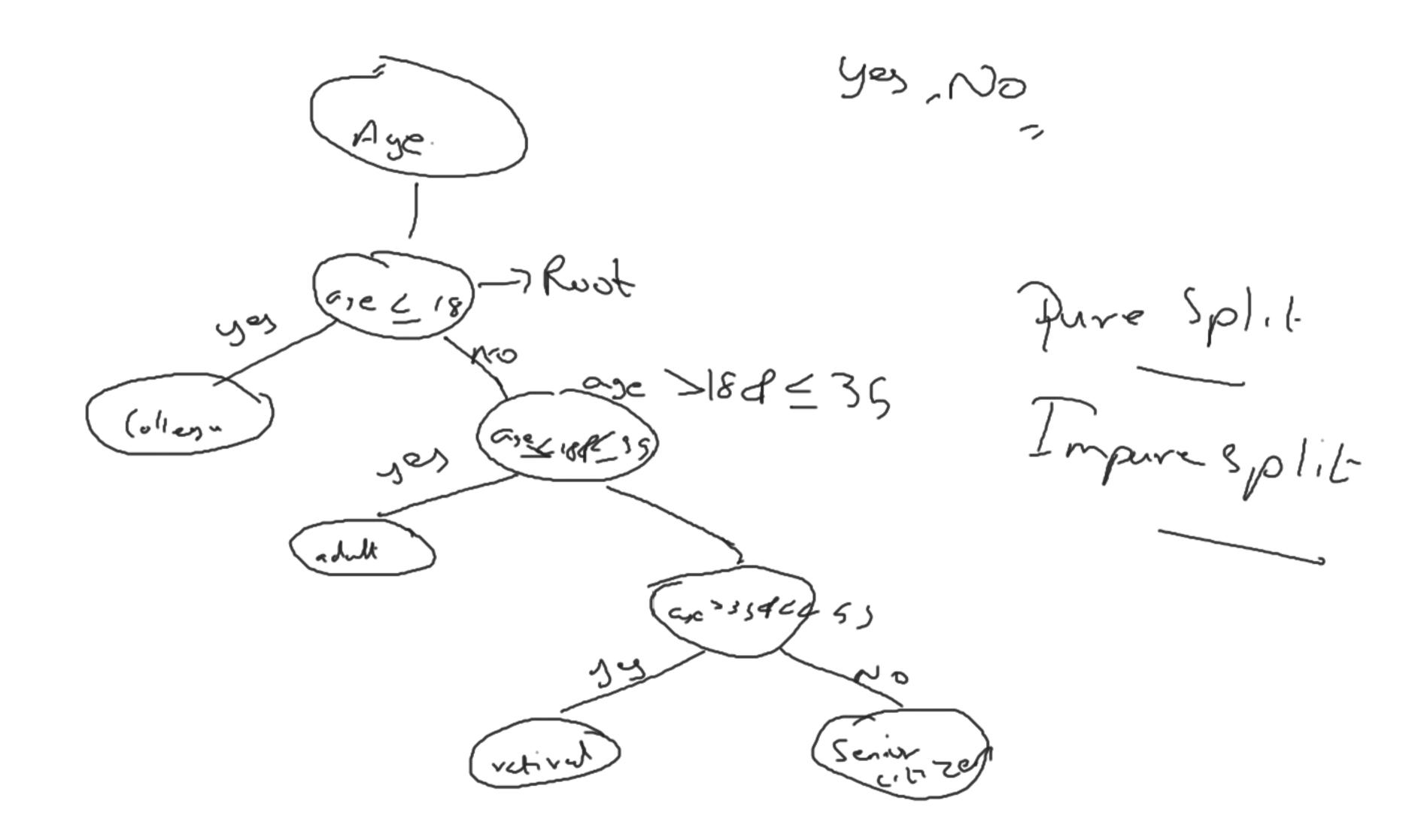
if (age 218)
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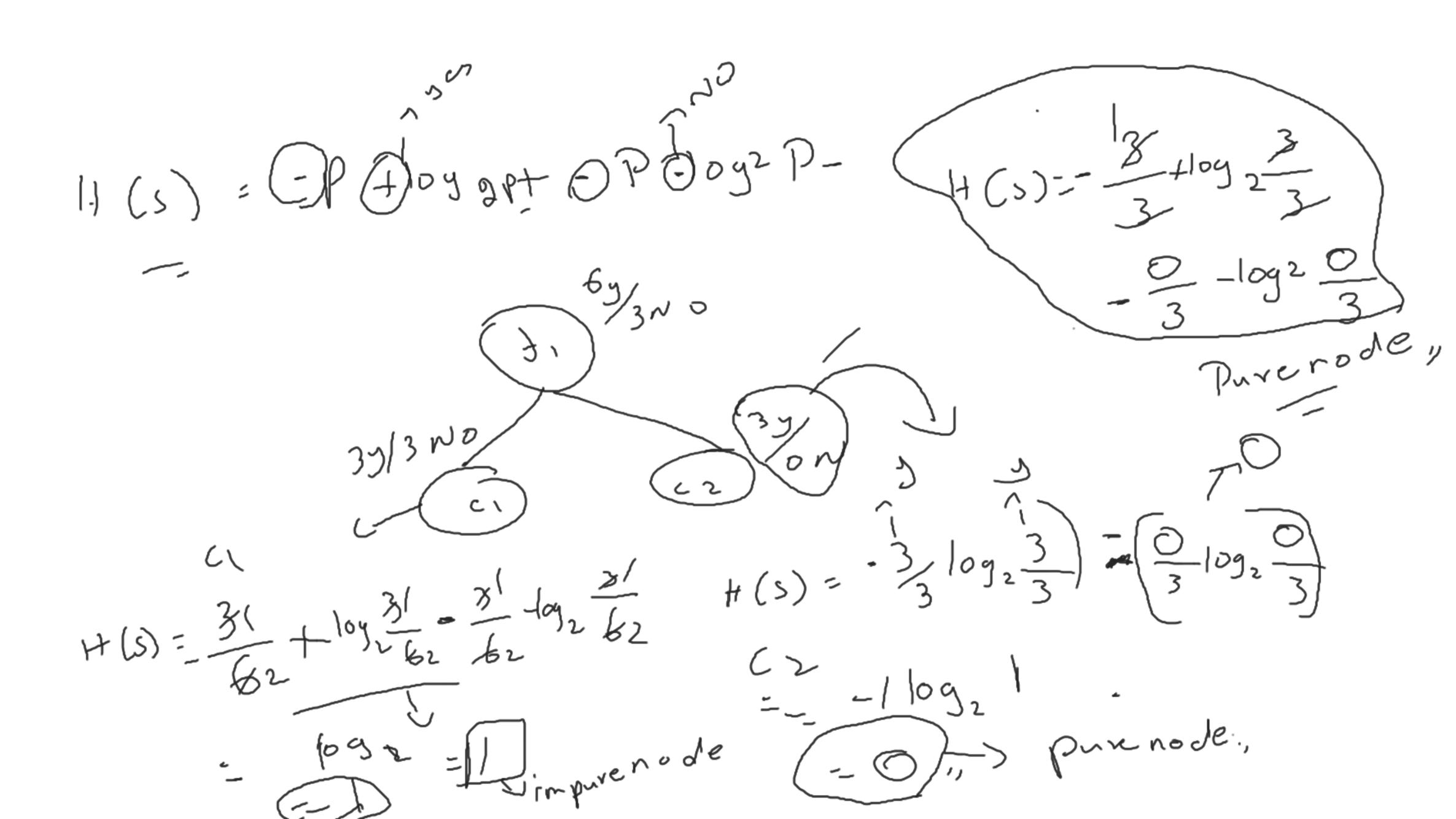
Day	Outlook	Temperature	Humidity	Wind	Play Tennis	
1	Sunny	Hot	High	Weak	No	
2	Sunny	Hot	High	Strong	No	
3	Overcast	Hot	High	Weak	Yes	Ownook)
4	Rain	Mild	High	Weak	Yes	(Ow(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
5	Rain	Cool	Normal	Weak	Yes	
6	Rain	Cool	Normal	Strong	No	
7	Overcast	Cool	Normal	Strong	Yes	9/201
8	Sunny	Mild	High	Weak	No	2 y 3 N / me" \
9	Sunny	Cool	Normal	Weak	Yes	34/
10	Rain	Mild	Normal	Weak	Yes	13/0N7 5 - 3/2
11	Sunny	Mild	Normal	Strong	Yes	
12	Overcast	Mild	High	Strong	Yes	(Junny) (overcast) gede
13	Overcast	Hot	Normal	Weak	Yes	(overcast) cooks
14	Rain	Mild	High	Strong	No	1º Ra
In this example,	Entropy(S)	$= -\left(\frac{9}{14}\right)\log_2\left(\frac{9}{14}\right)$	$-\left(\frac{5}{14}\right)\log_2\left(\frac{1}{14}\right)$	$\left(\frac{5}{4}\right) = 0.9450$	Eq.3	Zw.
	Pu	rity				

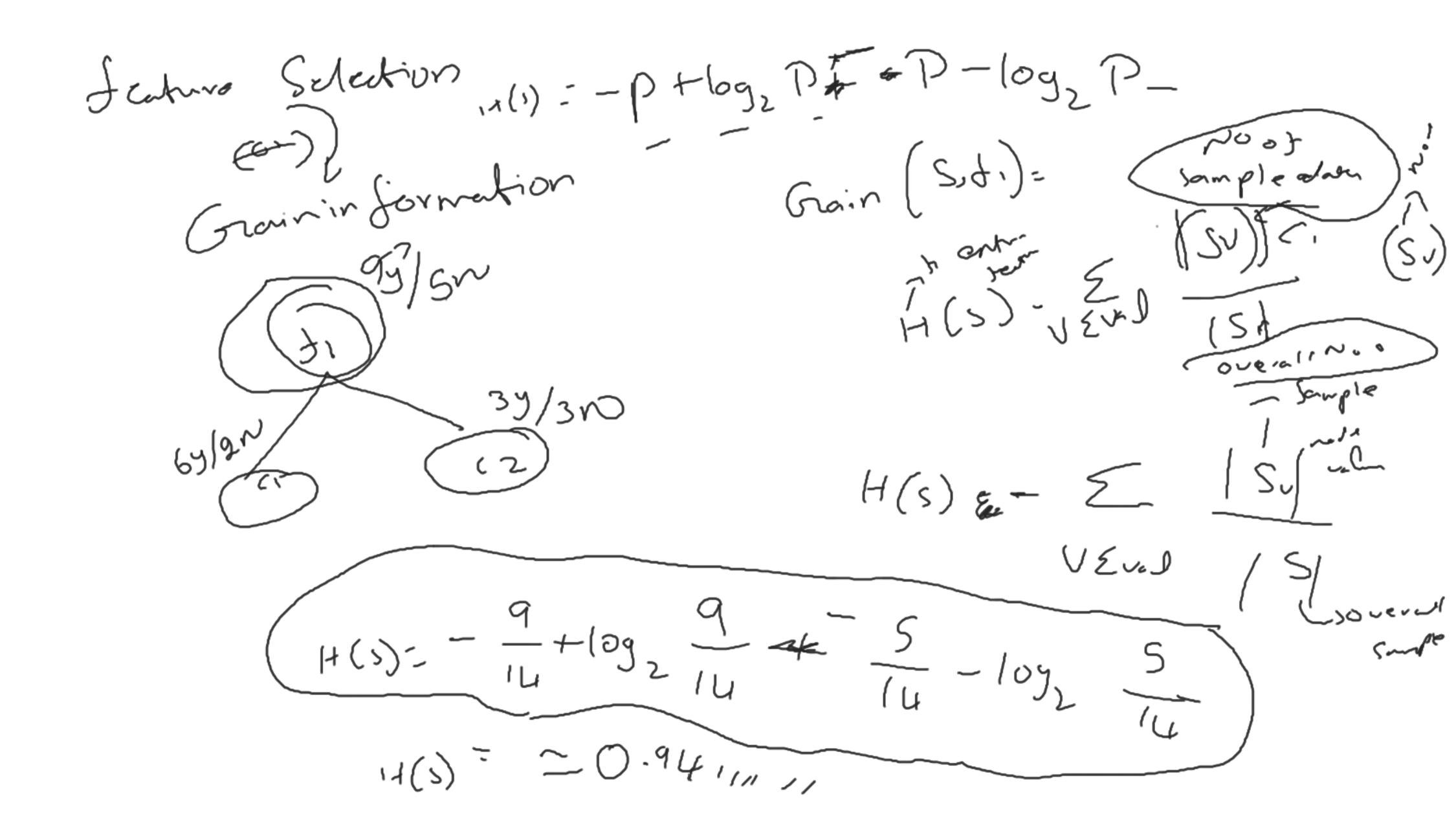
Purity
L> Entropy->/
Conini Impurities (00) Gini Coefficienting

This Select Particular Column Which has Gain information > 90001 knowlege (00) huge Regarding dotter and the Output

Entropy:

H(s) - - P + log 2 P + - P - log 2 P





$$H(S_{1}C_{1}) = \frac{15V}{|S|}$$

$$H(S_{1}C_{1}) = \frac{15V}{|S|}$$

$$H(S_{1}C_{1}) = \frac{6}{8} \log_{2} \frac{3}{8}$$

$$H(S_{2}C_{1}) = \frac{3}{6} \log_{2} \frac{3}{6}$$

$$H(S_{2}C_{2}) = \frac{3}{6} \log_{2} \frac{3}{6}$$

6 air (S, f2) =

(n.T. 2-1/17. G.T= 1-3=(P) $\frac{25(2N)}{\sqrt{2}}$ $\frac{(p_{+})^{2}+(p_{-})^{2}}{\sqrt{2}}$ =1- \(\frac{1}{2}\right)^2\) \(\frac{1}{5}\right)^2\) \(\frac{1}{5}\right)^2\) = 1.0.5 = 0.5 " In prochode,

large dateret Orining Sainipuis. Reyvession

Hyperparameters = Decision Mancedepth, Menz. Pat 1