

## Entropy 2 Information Gain

- Derree of uncertainty in the data.

	Feetine Size 22)	CIhr®	J. Fun
10	3.5	Red: Red	No S
	(6.3)	Red.	74 74
	Entropy high.	Buho py Zaro	

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Entropy = 
$$-\frac{1}{2}$$
 fi log (Pi). [2]

 $K - No \cdot n$  classes in 'y'

 $K = -\frac{1}{2}$  [2]

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 $K - No \cdot n$  classes in 'y'

 $K = -\frac{1}{2}$  [3]

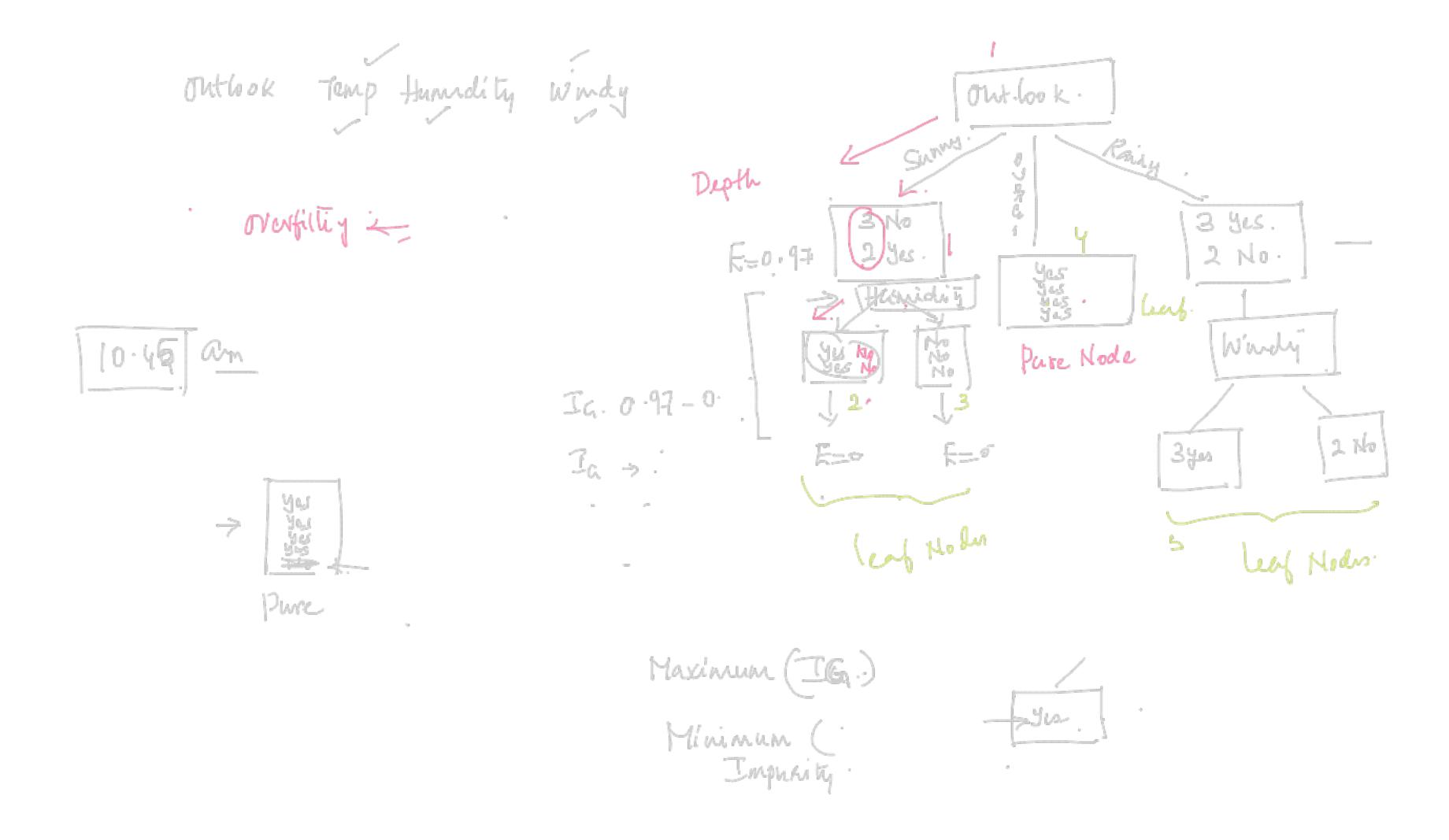
 $K - No \cdot n$  classes in 'y'

 $K - No \cdot n$  clas

$$= 0.94 - \left[\frac{5}{14} \times 0.97 + \frac{4}{14} \times 0 + \frac{5}{14} \times 0.97\right]$$

$$= 0.94 - 0.69$$

$$= 0.25$$



Classification Hodel Selver. Versi. UNSIGH Minimum is -> flinimize-Maximum In, Crim Impunity IG = Information Crain. -> (Hazinize)