

Entropy To Splitting witeron 

Information Gain (I.G.)

Ly mes and of Parity

In the node, there only multiple Classys

Ly Impare 7 Entropy 7

Meaning of Imparity

$$T.6._{0} = 1 - (-P_{+} | g_{+}^{2} P_{-} - P_{-} | g_{2}^{2} P_{-})$$

$$= 1 - (-0.67)g_{1}^{0.64} - 0.33 | g_{2}^{0.33})$$

$$= 0.086$$

$$=) \frac{8}{20} * 0.189 + \frac{12}{20} * 0.086 =) 0.127$$

-> Split on class board on Entropy II G.

$$T.6. \text{ on spart}$$

$$T.6. \text{ class} = W_A T G_A + W_B T G_B$$

$$\Rightarrow \frac{10}{20} (0.27) + \frac{10}{20} (0.27) - 0.28$$

	featu.	I.C.
	Heigh	0.127
Bort 1/let	Chas	0.28
7 4		

-> quality conformion Mortly when more categorical variets are property

Sparity Index

Shomogenity

The 15 T Nomogenity H Pure Node  $\int_{0}^{2} = \left( Ac \text{ had } - \text{Expected} \right)^{2}$ S = V (Acolud - E \* pectel)<sup>2</sup>
Expected

Chengau don value of Chi-sdy- Splut on Performance based on Chi-Square

$$\int_{A_{+1}}^{2} \sqrt{\frac{(8-1)^{2}}{7}}$$

$$=) 0.38$$

$$\int_{3+10}^{2} \sqrt{\frac{(2-3)^{2}}{3}}$$

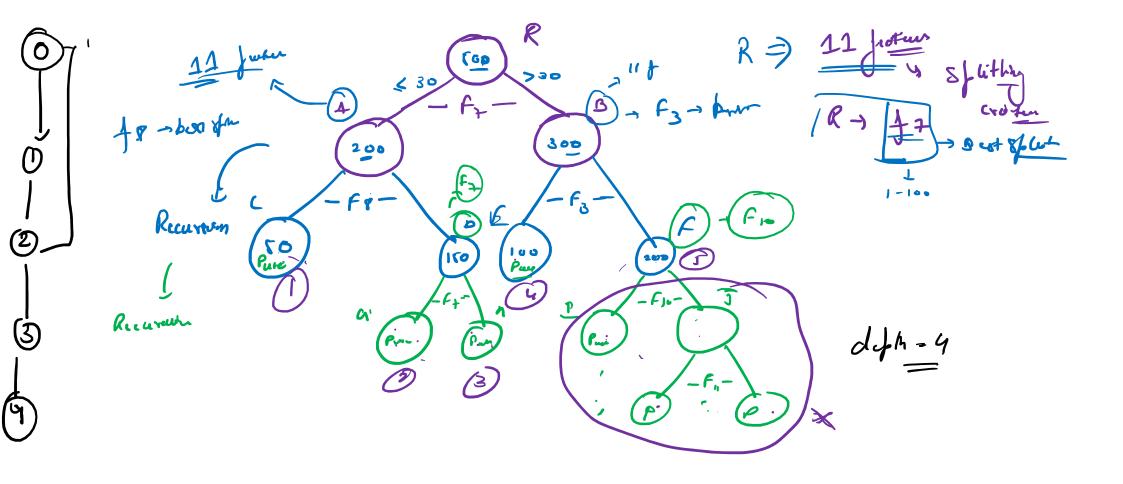
J<sub>B-12</sub> = 
$$\sqrt{\frac{(4-3)^2}{3}}$$

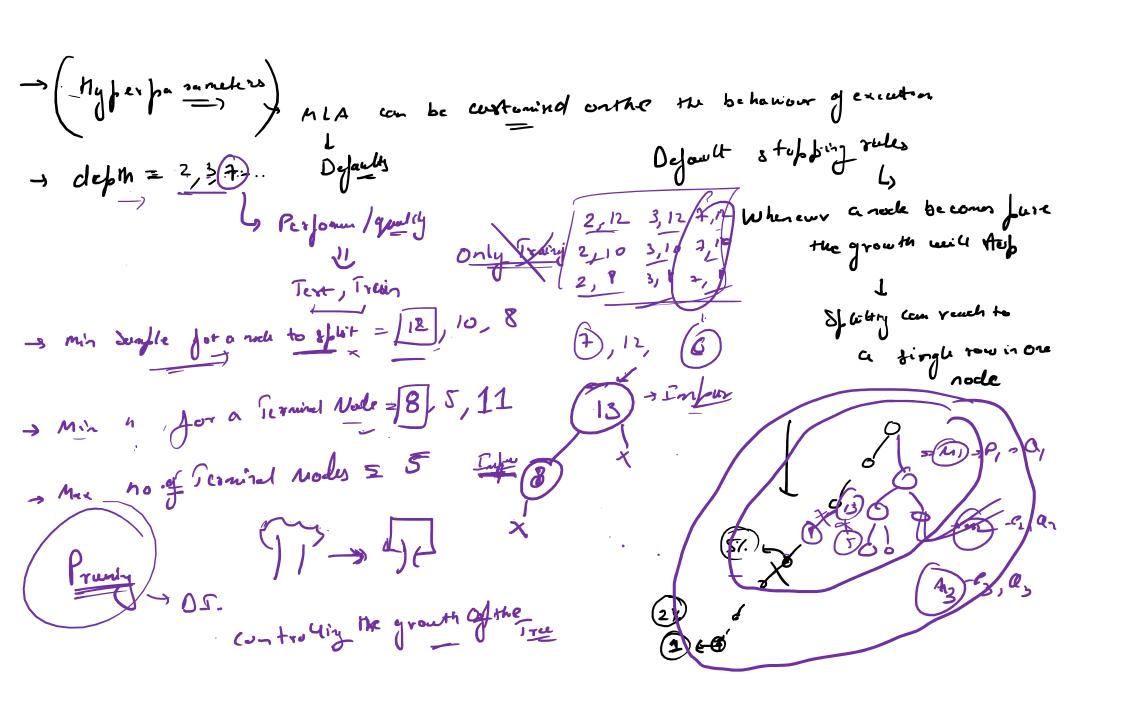
$$\int = \int (A - E)^2$$

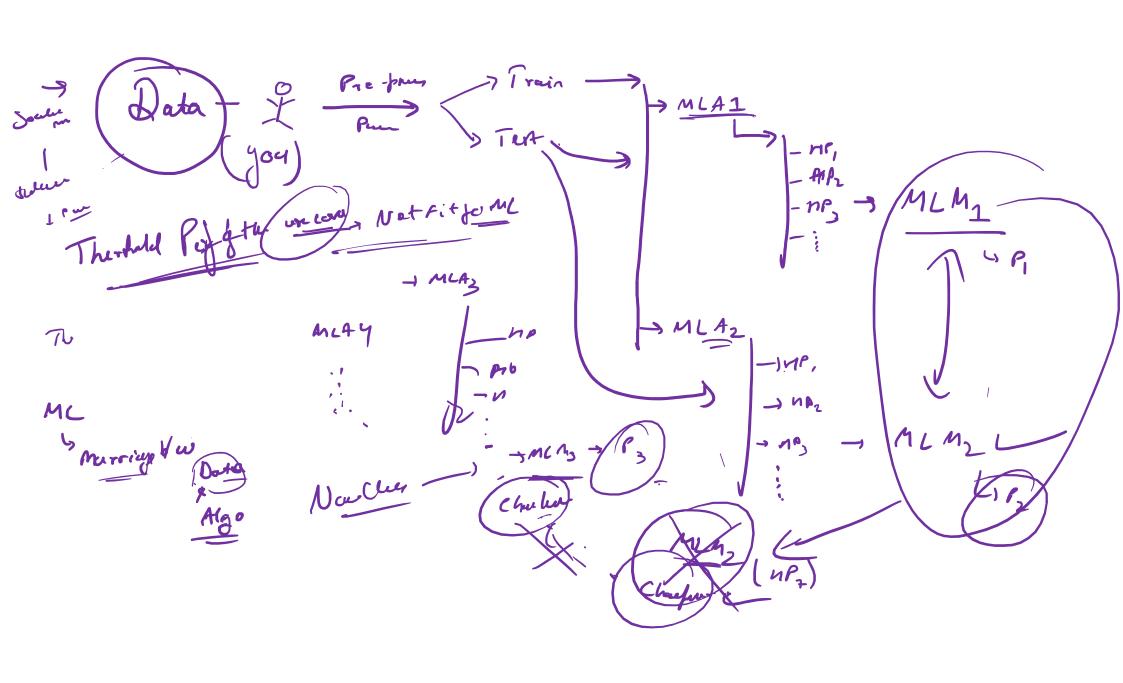
$$\int_{B(tve)} 2 \sqrt{\frac{(2-5)^2}{5-1}}$$

$$\int_{B(m)} = \sqrt{\frac{(8-6)^2}{(8-6)^2}}$$

	Johan	儿"	
	Perf	1.9	
Bonglit	thes	r-26	







1- gr Data -> mining when S (ML) => Mining with 12-ment by 12-ment by 19-ment by

Arize Man -> 12-ment by 19-ment by

4.25 Man -> 12-ment by

9-ment