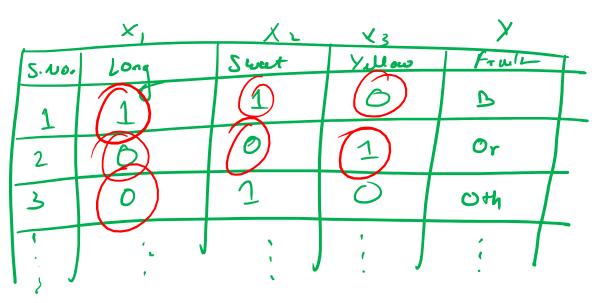
- -> Noive Dazes Classofication
- Probabilitie MC Model
- und for dwarpinton
 Superunsed ML

$$P(B/A) = P(A/B) * P(B)$$

$$P(Y/X) = P(X/Y) + P(Y)$$

$$P(X/Y) = P(X/Y) + P(Y)$$



1000 fruits
U

500 Banane
300 Over

long Sweet Yeller

1 0 1 2 3

loo.

(1) Jumary

	del L'o								
ľ	ĨI.b	1 L	L'	S	81	γ	X/	Total	
	3	400				400	20	500	
	OY	0+1	300	١٢٥	160	306	0	300	
-		100						2.0	
1	Total	700)	₹00	680	540	800	200	1000	

$$P(B) = \frac{500}{1000} = 0.5$$

$$P(or) = \frac{300}{1000} = 0.3$$

$$P(or) = \frac{300}{1000} = 0.3$$

$$P(0m) = \frac{200}{1000} = 0.2$$

$$P(1) = \frac{600}{1000} = \frac{600}{1000} = 0.8$$

$$P(L/B) = \frac{400}{500} = 0.7$$

$$P(L/Or) = \frac{1}{300} = 0.7$$

$$P(S/Or) = \frac{150}{300} = 0.7$$

$$P(S/Or) = \frac{100}{300} = 0.7$$

$$P(\gamma/\alpha r) = \frac{3 \cdot 0}{3 \cdot 0} = 1$$

$$P(L/om) = \frac{100}{200} = 0.5$$

$$p(S/oth)_2 \frac{10}{200} = 0.70$$

Training Confleted_

$$P\left(\frac{3}{L},\frac{5}{7}\right) \Rightarrow \frac{P(L|B) * P(5|B) * P(7|B) * P(6)}{P(L) * P(5) * P(7)}$$

$$P(Or/L, S/Y) \Rightarrow P(L/or) * P(S/or) * P(Or) + P(Or) = 0.003 * 0.0 × 2 * 0.5 × 0.6 × 2 * 0.5 × 0.6$$

$$P(sh/L,s',y) \Rightarrow P(L/oh) * P(s') * P(y)oh) * P(oh)$$

$$= 0.5 * 0.45 * 0.25 * 0.25$$

$$= 0.5 * 0.65 * 0.75$$

- da place Correction - Add (+1) to zero-prob so that the overell prob dies not become - Bags &

Clamifica of NO Myo

* Gaussian NB: - Mort Jealurs asce in Normal DivA

+ Maltinemial NO! - Jeateur are discreek

+ Bernoulli NB 1- MoVI Jeolus wer Birary