Muive Dayes Algo?

Bayes Throoten; P(B(A) . P(A) P(AB)

Bugd = 5W & 2R -> INI = 5/7

Boy11: - 4W& 3R -> R= 3/7

By 1: 5W 8 2R 
$$\rightarrow \frac{1}{2}$$
,  $\frac{2}{4}$ /Boy 11: 4N 8 8R  $\rightarrow \frac{1}{2}$ ,  $\frac{3}{4}$ /

$$Bag_1 Bag_1 = \frac{1}{2} \times \frac{2}{7} \left( + \frac{1}{2} \times \frac{3}{7} = \frac{2}{14} + \frac{1}{12} \right)$$

$$Bag_1 Bag_1 = \frac{2}{14} \times \frac{2}{14} = \frac{2}{14} \times \frac{3}{14} = \frac{2}{14} \times \frac$$

$$P(B_2|R) = P(R|B_2) \cdot P(B_2)$$

$$P(R)$$

```
Posterior = (Likelihood probability) × (Prior probability)

Probability

(Conditional Probability)
```

(Marginal or Wedenie probability)

 $P(1/x) = \frac{P(x/y) \cdot P(y)}{P(x)}$ 

 $P(1 | 2x_1, x_2, x_3) =$ 

P(26/14). P(22/4). P(26/14) X P(4)

b(x1). b(x2). b(x2)

P(1/281, 22/33) = P(7) Ti P(x:/Y)
P(x:)

( Likelihood probability o prior probability) Podability P(1) 224, 24, 25) & P(4) (1) P (20) (1)

(P(N/221,12123)) = (M) 4 X (Mes) 9. (M/s) 9. (M/s) 9. D(x), b(x). b(x) 

(RINI) (RIN)

(RINI) (RIN)

(RINI) (RIN)

(RINI) (RINI)

(RINI) (RINI)

(RINI) (RINI)

(RINI) (RINI)