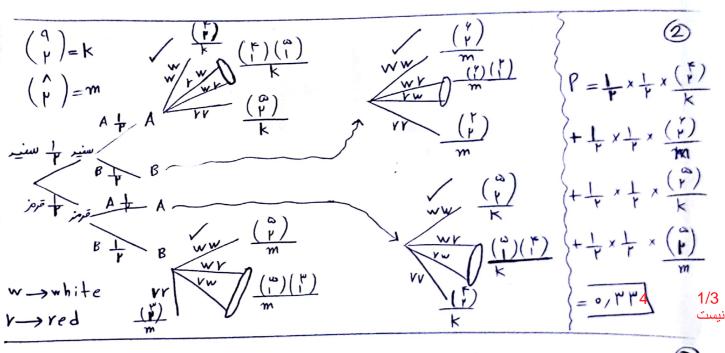
ب) ماننه قست مبل:



A: سکہ اول طلابات. (سکہ ای کہ بیرون می آ وریم)

B: « درم « » ( « » منوز درون جعبہ است)

جعبہ ۳ - 2 طلا

" م - 1 طلا + 1 نقره

" اللہ - 1 اللہ - 1

$$P(spam) = o_{1}V \qquad p(\sim spam) = o_{1}W \qquad p(x) = o_{1}V \qquad p(x') = o_{2}W \qquad (Spam)$$

$$P(x \mid spam) = \frac{P(x \cap spam)}{P(spam)} = \frac{o_{1}V}{o_{1}V} = \frac{V}{V}$$

$$P(x' \mid spam') = \frac{P(x \cap spam')}{P(spam')} = \frac{o_{1}}{o_{1}W} = \frac{1}{W}$$

$$P(x' \mid spam') = \frac{V}{W}$$

$$P(x \mid spam') = \frac{V}{W}$$

$$P(Spam \mid X, Y') = P(X, Y' \mid Spam) \times P(Spam)$$

$$P(X, Y')$$

$$= P(X \mid Spam) \times P(Y' \mid Spam) \times P(Spam)$$

$$P(X, Y')$$

$$= \frac{1}{P(X, Y')} \times P(X \mid Spam) \times P(Y' \mid Spam) \times P(Spam)$$

$$P(X, Y') = \frac{1}{P(X, Y')} \times \frac{Y}{Y} \times \frac{\Delta}{Y} \times \frac{Y}{1} = \frac{\mu}{Y} \times \frac{1}{P(X, Y')} = \frac{\pi}{X}$$

$$P(Spam \mid X, Y') = \frac{1}{1} \times \frac{1}{P(X, Y)} = \frac{\pi}{X}$$

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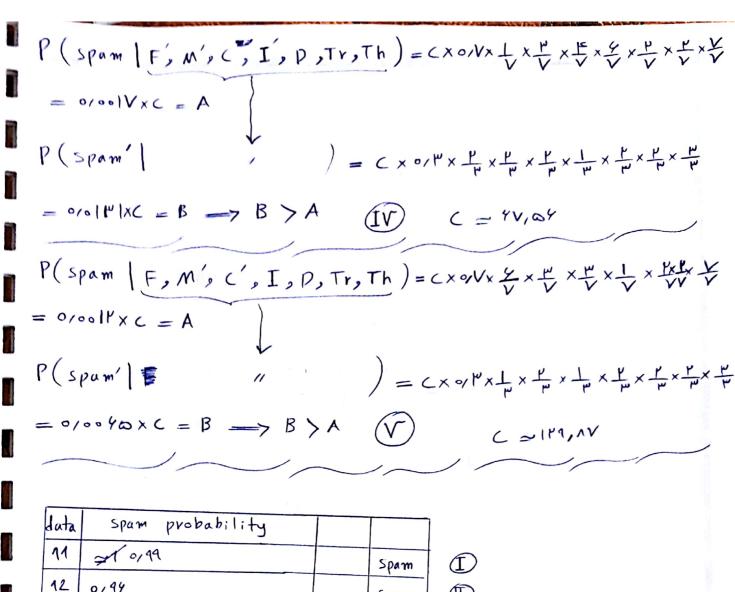
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	11 1 0 spam probability  11 1 0 spam 0,94  12 1 0 0 000  15 0 1 not spam 0,04  15 1 1 Spam 0,04
	P (Spam   F, M, C, I, D, Tr, Th) (?
	= 1 P(F,M,C,I,D,Tr,Th) × 0,1 × 4 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5
	= A
]	P(Spam'   F, M, C, I', D', Th)
	$= \underbrace{\left(\begin{array}{c} 1 \\ P(F,M,C,I',D',Th) \end{array}\right)}_{X \circ P \times \frac{1}{\mu} \times \frac{1}{\mu}$
	$= B \qquad \qquad \frac{0/0  \text{PV}}{\text{PV}}$
	=> A>B ( C=11/1/1 Constant )
	P(Spam F,M,C',I',D',Tr,Th) = C x O,V x + x + x + x + x + x + x + x + x + x
	$\times \frac{P}{V} \times \frac{V}{V} = 0/0  \text{VaV}  C = A$
	$P(spam')$ $= c \times 97 \times 1 \times $
	$= \frac{0/0  \text{F}}{100  \text{F}} \times \text{C} = \text{B}$
	B ( A ) (II) C = rv, v
	P(Spam   F',M',C',I,D,Tv,Th) = CXO/VX + X X X X X X X X X X X X X X X X X X
	$\times \frac{V}{V} = \frac{0/001F}{V} \times C = A$
	p(spam') ) = cxo, mx + x + x + x + x + x + x + x + x + x
	= 0/01MXC = B => B>A (II) C=VO,VO

dota F D spam probability  11 1 0 Spam 0,94  12 1 0 1 009  13 0 1 not spam 0,11  14 0 1 1 000  15 1 1 Spam 0,11
$P(Spam \mid F, M, C, I, D, Tr, Th)$ (?
$= \frac{1}{P(F,M,C,\overline{I},D,Tr,Th)} \times O/V \times \frac{V}{V} \times \frac{F}{V} \times \frac{F}{V} \times \frac{S}{V} \times \frac{S}{V$
P(spam' F,M,C,I',D',Th)
$= \underbrace{\begin{cases} \frac{1}{P(F,M,C,I',D',Th')} \times \sqrt{P} \times \frac{1}{P} \times \frac{1}$
=> A>B ( C=11/1/1 ) ==============================
$P(Spam F,M,C',\Gamma',D',Tr,Th) = \stackrel{1}{C} \times \circ N \times \frac{4}{V} \times \stackrel{E}{V} \times \stackrel{W}{V} \times \stackrel{V}{V} \times$
$\times \frac{V}{V} \times \frac{V}{V} = 0 / 0 V C = A$
P(spam') = < x 9   x + x + x + x + x + x + x + x + x + x
$\Rightarrow B \langle A \rangle \qquad = \frac{0/0  P}{PV} \times C = B$
$P(Spam   F', M', C', I, D, Tv, Th) = C \times 0/V \times \frac{1}{V} \times \frac{\mu}{V} \times \frac{\nu}{V} \times \frac{\nu}{V} \times \frac{\nu}{V}$
$P(spam')$ $= (x0)^{\mu} \times \frac{1}{\nu} \times $



data	spam probability		]	
11	×1 0/99	Spam	<b>①</b>	
12	0/94	Spam	<b>(</b>	
13	0/91	not spam		
14	c/ //	notspam	IV	
15	0/NE	not spam	(V)	

به و صنوح می می اور می بیش بیش بیش بیش کرده و عمار در بهتری دارد. هرچه قدر که تناخص های سنجش بیشتر شود و غضای بنونهای بررگ تر شود، جواب های د حیّق تری مردست می آید.

$$P(Clanb) = \frac{P(Cnanb)}{P(Anb)} P(Bla) = \frac{P(Anb)}{P(A)} D$$

$$P(I_{\circ}) = \circ / V \qquad P(I_{\circ}) = \circ / I'$$

$$P(R_r|I_1, D_2, G_r) \stackrel{\uparrow}{=} P(R_r|G_r) = 0,19$$

$$R(R_{\mu}) = P(R_{\mu}|G_{\mu}) = 98$$