\* 10/25 you 公司人人 到了了 PCISS XM Box Stry 3/2 our try 2/2 42 P(ANB) P(A|B) PCB) PCAMBI PCAMB) = PCAIB) PCB) = PCBIA) PCA) P(A=> (2) w X+70/07/3/=X イナガリーをのままり、 (b) -> R3(12) 0.5 =

Bayes

A (B)

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$$P(B|A) = \frac{P(A \cap B)}{P(A)}$$

$$P(A|B) = \frac{P(B \cap A)}{P(B)}$$

$$P(A \cap B) = P(B) \cdot P(A \mid B)$$

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$$P(B \mid A) = P(B \mid A) \quad P(B \mid A) = P(B) \cdot P(A \mid B)$$

1/10/2/2/21 P(BIA) = P(B) - P(A|B)
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121/3/31 P(A1B). P(B) P(BIA) = PCA Buy moh Fal, free of 12/0/ 3/3: +++ (ree P(Spam | free) = P (tree) free bt >=151 7 Who stry mich 2/2 alg free 528 332 ham o (103 7 free \$3 52/8 =) (1000) (Free Spam). P(Spam) Spam (Free 878) (18/12) P(free | ham) . P (ham) Phom the En P (the)

$$P(spam | fee) = \frac{[?(spam), P(free | spam)]}{P(spam) = \frac{3^{2}}{10}}$$

$$P(spam) = \frac{3^{2}}{10}, P(free) = \frac{4}{10}, P(free | spam) = \frac{2}{3}$$

$$P(spam | free) = \frac{3}{10}, P(free | spam) = \frac{2}{3}$$

$$P(spam | free) = \frac{3}{10}, P(free | spam) = \frac{2}{3}$$

$$P(spam | free) = \frac{3}{10}, P(free | spam) = \frac{2}{3}$$

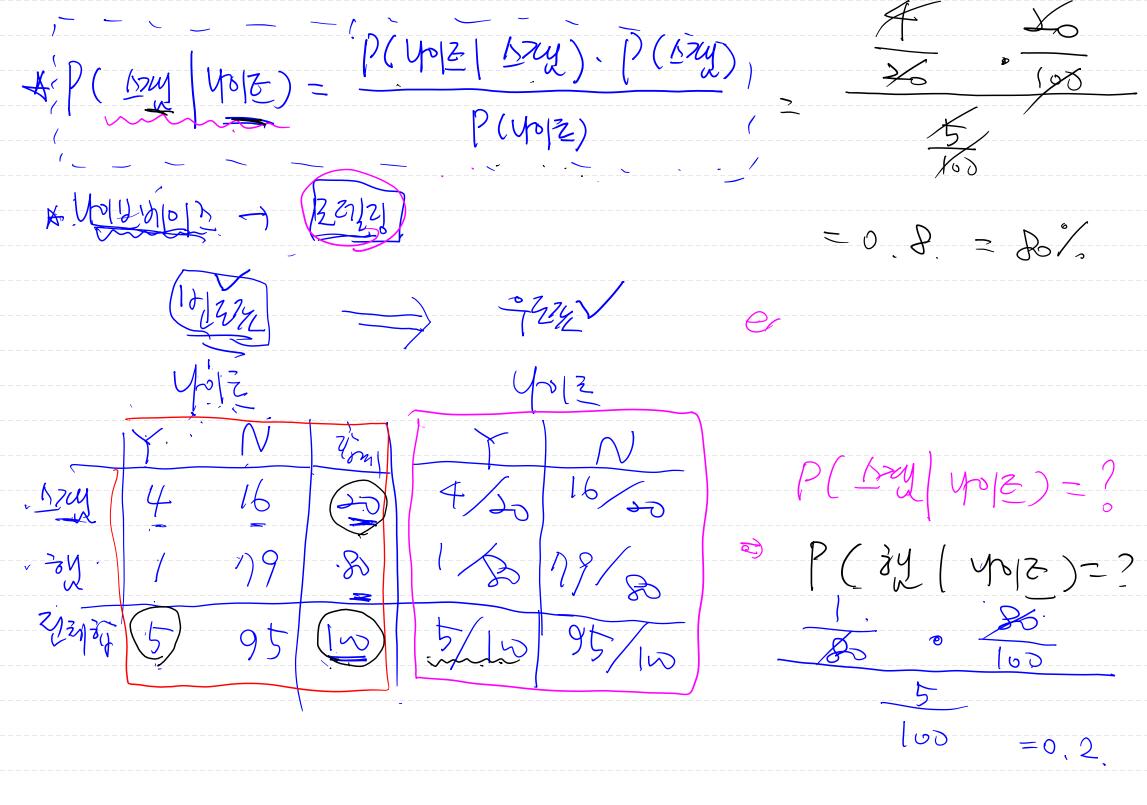
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$$P(spam | free) = \frac{3}{10}, P(free | spam) = \frac{2}{3}$$

Free, coupon. free Coupon Spann W T · 143 12/01, free. Coupon. Free, coupon. · P(spam) = 6 P(free () Coupm | Spam) = 2 · P (free 1 Coupon) = 4 = 1 P(Sporm) \* 1) (Free n coupon Sporm) P(Span | Free (oupon) =? P: ( free n coupon) 2 + 5 = 4 = 0.75 = 75%



P ( 5 m) 7 X, 7 X, X3, 7 X, ... P(Spam | free n coupon) = P(Spam). P(freencoupon / Spam) P(free 1 couper) P(4k, | hm): ... P(4m (ham) , P(hg))

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