Усновные веролетиоети

Oбщее nou-bo enocéob boisopa k mapob uz (n+m):

Бпагоприметивсе варианы: Ст

Torque bep-mb: $P = \frac{lm}{lm}$

N2

« Kou-bo bapuaurob, norga na ognour boenagaer 12, a na ocransusex - pazunennse uncue ne 12 :

3.10-11 = 330 ug-ga FORO, TED 12 manner bounacers na modern ug 3x

· keu-bo beex engraeb: 123

 $P(A|B) = \frac{P(A \cdot B)}{P(B)}$ 12.11.10
12³

 bep-ms: 3.11.10 £ 0,19

Ombem: 0,19

3 <u>44.10</u>. <u>12³</u> = <u>1</u> 12.11.10 = <u>1</u> N3 - rog b mere

lovremure nonaprer rezabercement, ceeex:

 $P(A|B) = P(B) \iff P(A \cdot B) = P(A)P(B)$ J P(B|A) = P(B)P(A) Советия иезавишем в совонупиоети: $P(A \cdot B \cdot C) = P(A) P(B) P(C)$

ABC-0 Kou-bo cuyeaeb: A-72 B-72 AB-36 AC - 36 BC - 36

Beero empeaeb - 122 = 144

• P(A) = P(B) = P(C) = 1/2

· P(A·B) = P(A·C) = P(B·C) = 1/4

P(ABC) = 0

=> nonapuace negabore-17 V

=> negab-15 b cobox-17 x

NY

Без диокеров: $P(A) = \frac{13}{52} = \frac{1}{4}$ P(B) = 4/52 = 1/13 $P(A-B) = \frac{1}{52}$

=> yeu rugabucuru-rue boinouriero

P(A) = 134 С дыжераши: P(B) = 4/54 P(A-B) = 1/54

⇒ yeu. nezabuennecocmu ne boinouneno

N5

Tephoee pag της: 4/36
Βτορού pag κοροιες: 4/35 Tremus puz genny: 4/34

 $\frac{4}{36} \cdot \frac{4}{35} \cdot \frac{4}{34} = 0,00149 = 3!$

Menobile pobleouversuo: "unione Bep-ms roso, reso nephre expense nonager nephreue"

Coberne A - nephone espenox noparecret unement nephone $P_1(A) = 0.2$

 $P_2(A) = 0.8 \cdot 0.7 \cdot 0.2$: nephoto u bropose especial ul nonacle c nephoto paza; lá especial nonacle co broposo.

 $P_{N}(A) = 0,2 \cdot 0,56^{N-1}$

 $P(A) = \sum_{i=0}^{N} 0, 2 \cdot 0, 56^{i-1} - neue nporperceue$

 $S = P(A) = \frac{0.2 \cdot 1}{1 - 0.56} = 0.45$

Ombem: 0,45

N7

kou-bo bapuaurob burpums 5 ger: C100
kou-bo bapuaurob burpurs 5 noper ger: C35

Tapmus nucceeta: $\frac{l_{95}^{5}}{l_{100}} \approx 0.77 \Rightarrow$

Ombem: 0,23

Bep-ms nonaers: X

T.K. cooberneue mezabucemest:

- · nonaems que nephous: x
- · nonaero npu 14 mu 24: x + (1-x) x
- · nonaems npu 1 u ueu 2M uuu 3M:

$$X (1-X)^{2} + (1-X)X + X = 0.875$$

$$\Rightarrow X = 0.5$$

Ombern: 0,5

N9

a) nograguer bee cu nonagaucus bourd reposeu roma eu.,

 $P(\bar{A}) \cdot P(\bar{B}) \cdot P(\bar{C}) = 0.9 \cdot 0.7 \cdot 0.6 = 0.378$

Bep-13, uno nonacea xome de ogera: 1-0,378 = 0,622

δ) cuyuau, κοιμα nonaua πουεικο ομια δουεδα: $P(\bar{A}) \cdot P(B) \cdot P(C) = 0,042 \qquad P(\bar{A}) \cdot P(B) \cdot P(\bar{C}) = 0,162$ $P(\bar{A}) \cdot P(\bar{B}) \cdot P(C) = 0,252$

Вер-гъ, что попасио хота бы 2: 1-0,378-0,042-0,252-0,162=0,166

Omben: 0,166