F & P(I): much es pos; MIA) = un de ap es A imm exp P(A) = eing N(A) erosts from relative a ap A M(AUB) = K(A)+N(B); P(AUB) = P(A)+P(B); A nB=& -> P(AC)=1- P(A), ASB=) P(A) = P(B); P(AUB)= P(A)+P(B) P(A LB) = (AUB) | IANB) ; P(ANBC) = P(A) + (ANB) = P(A) P(Bn Ac) = P(B)(AnB) = P(B)-7(AnB) P(ABB) = P(ABB) + P(BAAC) M co Formula lui Paincare: P(" Ai) = E MAi) - EMA; nAj) + Z P(AinAjnAk) + - - + (-1) m-1 P(Ain - . Am) Jeh mage mefau(pas) fres Formela prod: [A1.18] of extraggere culton revenire. No part de and 4 ale unei multale m1. ...ml. m1 - clembjue 1 ... m4 - clembju Ini = n Probabilitati comdificati: P(MIBNC) = P(BIANC). P(AIC) =
P(MIB) = P(MB): P(MBNC) = P(BIC)
P(MB) = P(B) · P(MB) = P(M) · P(BIA); P(AND...) Am) = P(AI). almo) P(Am) AnnAz -.. nAm-1), P(AI = P(AIB) . P(B) + P(AIBC). P(B) P(A) = = P(A(B)) · B(B); (Form Bayes: P(B)) P(A(B) · P(B) P(IF) = $f = \frac{1}{2} (\pi(D)) \cdot (\pi(D)) \cdot$ lim = t(x1=0, lim = t(x)=1 · Propr · P(xxx) = 1 - P(x = x) = 1 - F(x) -P(x=x) = P(x=x) -P(x < x) = F(x) - eim +(x) . Folia de maso: px(x) = P(x=v) BK(K) >0 ZEK(T) bK(X)=7 P(NEN) = Epx(x), 7(x) = Epx(y) Guan aleatoane Bermaulli: x(w)= 41x)= Cpx(y)

Px(x) = px(1-p) 1-x F(x)= \frac{1}{2} \frac{ F(x)=hi-p xLo xx XxB(q) () ge(4) & (4) = (

. vouid about reported hipergram (fina Introncers): XnH6 (m, H, M) wife P(x=W= (m) (N-M) pole mass und sa a b-a extragrep · v. a discreta unit : XN2(0) & PX(X) = 10) P(xeA) = 101 or a who dearen fugeoun(b) bu(r) = r-b) +-1 b? b(x= wen prome)= no incapari baua ra Dalles

no urbangs und phrauson x n N B (1 26) > bx 10)= (n-1) (x=1)

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no urbangs und phrauson x n N B (1 26) > bx 10)= (n-1) (x=1) (x-1) · u. a Paisson (12 PM) PX (4) = (- 34 (30ms a de masis a umui es . It six want a a dinante jude b (XTA) qc: qe temb (whate a fe want) ef micas don no de saturat P(x=x) 9= 8 (x=x). P(y=y) messon = [x]= [xf(x); Exf(x) diverg => modia mu e dop きてのストウリー = a ET + b ef y 」: XLy => ET xy = ET xy = ET xy = c x=0.0 grow 8:15 → 15 A= 8(x)? ELA]= ELB(x)]= £ 8(x) b(x=4) · pariantes Now (x+0) = 6 [(x-6/x))] = 6/x2] - (E/x2); Now (x+0) = 05 mon(x) · Man de onderny: Elxy = 5 x4 f(x); Ellx-a) Jambat ina : coveranta: ([14] = E(1x-E(x))(y-E(4])] = E(N) - E(N) E[y) x123 000(x12)=0 (vont us coregate) (Kcf) in σοι(xελ) = σου(κιλ); σο(xελ'); σο(xελ'); σοι(xερ) = σου(κ'λ); . Vanishile aleatoure combinue: P(KEA) = Sf(x) dx HASR -P(acx46)= & f(x) dn P(xeR)= 5 f(A) dx-1 - Donalt de reportite: L.R-AR (que e opredentablet) \$(x) 30 + 5 f(x) dx = 1 AK=0) = 2 (1x) = 0 ?(asksp) = = -= ? (ackcp) - Fofa de rep: 7:R-10,17 +(x)-P(x=x) = 5 +(+)d+ f comd =) 7(h) = f(h) P(x = a) = 1 - P(x = a) = 5 f(x) - Media: Elx J= 3 x fColor; 2 KI f(x) de >+ = =) modia) E (3/4)] = 23(x) \$x99x - vanions : van(x) = Ex2] = Ex2] = Ex2] = 5 n2frado - (5 n8(x) do) - Monte andrin 4: ETX47.5 x4 KNoh v.a martizate mig. (n Wat) fin) = \ b-a, act cb \bigcirc

ben(U)=(b-a)2 +(x) =) xa , acxcb E[x] = \$ x dx Bet recommes wand vicounty-ornand - if you word (xiA) - who communa, Cherix=x) = Bix (Kix) = Bix (Kix) = Bix) Bix = Elix) Bix = Bix (Bix) Chix P(xy) (x,y) = P(x=x>y=y)= frylay () reprinagy: P(x=x)=px(x) = Z P(x=x,y=y) KEANXIN)

Nep cord a levix leay = Mx1y(Ny) = P(x=x,y=y)

MP(y=y) () form suit Boyer P x1y (x1y) = px(y) = px(x) py |x|y|x)

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() mar (3 modia candit: E[X|y=y] = \(\times \) P |y=\(\times \) P |y=\(\times \) Est(x1): demont command (x1) = f(x14)=0 55 f(x14)=1 SP((Ky)CA) = P(acxsb, (syed) = 58 f xy(ky) dyok () donsit marginalix: Ix (x) = Sfry(xy) dy () frap Fxy(kiy) = P(XEX, YEY) = } } fxiy(ui)) du du () reparatifamora: P(XEBIA) = S + KIA(W) dx, HOER > fxiA(x)dx)) probabo totale (x) = = = = (x) A) (x) P(A) -> fx/y/x/y = fx/y/x/y/fy/y) (2) indep cont: fx3(xy) = fx(x). fy(y) = fx(x) (x1) = fx(x). Cofonom levi Bayer: friy (xly) = f xlx(ylx) fx(x) 3 \$ 8/h(yh) \$ x(2) dx (Carely - Schross : Elky J = VE(2] [12]

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Elky H N20, 020 · Markou: P(KZa) & EN), 4 N20, aso · Chephyshen b(1x-m/20) + 2 3 + oron m= Ele] O5= nouth - champfe : P(KRa) & E[eta] cta > 4 asostso o degra no maris x, ... en va ild esertan, von(4) = 62 XM= KIF... +KM , modia epandhonusas El Km]=1, vanlam)= m A federation of we world blow ship 1: 1 sulmy -in , AME we show = V

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