

0,326 2 squyeens Можит образон вымения Bru a real ZK njuguero : 0,074 Tloop 1P(x=x,4=5) ZH; 7000 Dorog He Doxog 48 1/6 == 1/6 A 150 310 200 30 35 150 1/12 80 120 110 116 to 130 150 50 1/12 50 70 80 85 110 130 150 150 200 Poros 25 30 meguano Morp) 30 35 48 50 60 80 35 110 130 150 150 310 92= 13=6,5 MI = Z Z P(X=x, Y=y) log/P(x=x) 1/4 Ploxog 1/4 Doxog MI = 3. P(X=0, Y=0) log8P(X=9, y=0) 1/4 Dorpy 1/4 +2P(x=3,4=1)log&P(x=3,4=1)+2P(1,1) Doxog MOTP log 8 P(1,1) + 2 P(2,1) log 8 P(2,2) + P(3,0) log P(3,0) ROTP + P(20)log 8 P(20)+ P(1,0)log 8 P(1,0) = = 3 log 6+ 1 log 3+ 1 log 3+ 3 log 3+ 3 log 3 = = \frac{3}{4} \log \frac{4}{3} + \frac{1}{4} \log \frac{2}{3} = 0,665 - \times \text{opomore egg quie euro che } \frac{2}{3} \text{connected} Housaie chazo goxagol a not permenue

Anoucourp 8) a) It e 6 gornon engree un xoran per tu me perm grue bryoxessure AB -> C 20 A - godobnemue -olopo 6
B - 1020 purpy = A C - cobequerce noughun = Chaens 1 us Support (AB=e) = N(AUBUE) = -Confidence $(AB \rightarrow c) = \frac{S(AB \rightarrow c)}{S(AB)} = \frac{N(AB \rightarrow c)}{N(AB)} = \frac{2}{4} = \frac{1}{2}$ $(ift(AB \rightarrow c) = \frac{S(AB \rightarrow c)}{S(AB)}S(C) = \frac{2/9}{4/9} = \frac{18}{16} = \frac{3}{8}$ $lonv:etion(AB \rightarrow c) = 1 - S(c) = 5/3 = 9$ Support = = - enodoue chazé gnie repobiena. C = 1 - T. e ropobuno prodesogeneni uz A=1B=0 ygobn. Hony npobung lift= 3 >1 => AB + Churet no E a cuno apolano - 1 6) Myer 6 pregnoku no nopeguy coo: bererbeneno a, b, e, d, e, f Conviction > 1 m Rogernzeen wex gain upergreen (a(5) Shopagorante um redopa (b(3) 8)C 2) de 4 abed f C (6) 3) cold 5 cf cdet 8 bcet 9 obd e (3) S (4) (4) cd Copour 5) C FP gapabo 6) f (4) cadfb +)cadfe 8)cfbe 91097

Due voxgozo neguero usque myro gre npeopunce (C,6) V >3 1) One C tonous neder 43 C 2) a > {(e,a,3)? Conser lenno 200 weers Hersop 3) 6 3 ((0, 6, 6, 6), (0, 8, 6, 1) (c, a, d, f, b, 1) } copour FP sepelo (e, f, b, 2) £3 x (a,d,b,2) 23 x { (c,f,b,e,1), (c,odfe (a,e,1)3 (c,f,e,2) £3 (9,8,2) 63 × f > { (c, e, d, f, 2), (cf, 1) 100 (E.8) } (E,f,2) <3 It a hodopon 1200 Sapport (C,6) (c,a,3) (c,a,d,3)

4

6) $y = \frac{-11 \times \cdot 2 - 5 \times -19 \times -22}{e^{-2 \times 2 + \times -62 + 3}}$ = e = -9x2-6x-132-25 een 2 xe const Bug 1 hy = -9x2-6x-132-25 l erectoro 200 eê kelog no keo ngu beccu u nun. bugg vs- 3ª representations XZ, KOTOPOR DETENETUR REPORTEREN JOHR MAN SOMEN.

7) HA NONGREEN BCB & COMMENTER COMMENTER. потовить гонено 25 к то они свответетвуют и коиб. T. e. 12 = 426,5 Morgo our observeror d2+d4 6/0 2 diene peur 92,7% our enegenn 72,7% our enegen 72,7% our e 92,7% guene peur . a) Morgo nongrenuore gousse $970 \times - [V_2, V_4] = \begin{bmatrix} -25,84 & 4,36 \\ -9,09 & -6,26 \end{bmatrix}$ 1,13 -1,75 -3,48 0,36 -7,87 -3,78 1) $dR^2 = 1 - \frac{3}{9000} = 1 - \frac{3}{25} = 9.88$ d) Mpobepho znaturoeta ne ypobie 2=0,2 Проверко 3 колито Ко: β0=β1=-β7=0 Fp0e= 1. (I-R) 1 - 3 H1: 32: β2 +0 1 - K-1 (I-R) 15 - 3 = 22.79 = 82,761 >> Figur (7,79,0.2) => 10 orbeproces => mogens 3 no centre 2) 9 noc 3 bordopun n. (5,8; 3.4; 3,5; 4,2) 2) 9 noc 3 bordopun n. (6.7; 6.2; 3.3; 3.5; 1.8; 4,8) N3 (5,7; 6,8; 7; 3,4;4,8) 10: MI=MZ=M3 Eune Mo => 1 = n3(x; -x) HI: Jus Miths Fjac - DBn. n-k 3 2 (kg - xg) 2 1-7

Froc = 1 0(4/4,225-4,7)2 6/4,383-4712 X1= 4,225 + 5(5,48-4,7)2 X2 = 4,383 1 (\\\ \(\z\) \(\z\) \(\z\) \(\z\) X3 = 5,46 x = 4,7 = 2,196717 1 (3,6875+17,4883+8,712) Fpec = 2,186717 = 9,883 Figur (2,14,02) 31,8 > Fpoe => 40 0+80p20em 5) Верогетно, построено игодель с позорор b= (xx) = (xxy). Novement o gono conoco 6? Centre ypred = bot bixit - + bux une comme 000111 y' 0,45 0,5 -2 93 94 4 ypred = 1 1+ e-9pres e 1 0,63 60 \$ 389 78 656 90183 6h = 0.5 = 0,61 0,62 0,110,574 0,6 0,98 9/1/10/1/ TPR=1 Precision = TP = 3 recell = 1 $\frac{5}{4}$, $\frac{3}{5}$, $\frac{20}{23}$, $\frac{15}{23}$ Fo,5 = 5 1.3/5