p(y, w, X/A) 2 [7 W(xc10, 62 Dr) W(w10, A2) [7 p(yo 1 x, w)] 1P(4525) 2 Joep (-witi) a) P(w/ Xtrain, ytrain, A) -! Pouc p(w1 X, y, A) = p(X, y 1 A) = p(y, w, XIA) p (x, y, A) · p (y | x, A) · p (x | A) = p (y, w, x | A) P(U/X,y,A)= P(y,w)XA) - N(w)OA-1)([p(ys/Xi,w)]

p(y/XiA) - p(y/XiA) qui) = -lay p(y; w1X,A) = -lay par1A1 - lay p(y/x)2 = 9 (WARD) + \$ (W-WARD) + 1-2 (W-WARD) + O(1) W-WARD(3) H-3 A+XIRX, R= diay (B(wans X)B(-wate X)) was: Eggs - Man quis wAn - Thog & cy; wit) Dqa)= Aw + Zi sologi o (y) witi) $D_{E(x)} = D \frac{1}{1 + e^{-x^{2}}} \frac{1}{(1 + e^{-x})^{2}} \left(e^{-(-x)} \right) = \frac{e^{-x}}{(1 + e^{-x})^{2}} \left| = 0$ $C_{E(x)} = D_{E(x)} = \frac{1}{2} \frac{1}{(1 + e^{-x})^{2}} \left(e^{-(-x)} - 1 \right) = \frac{1}{(1 + e^{-x})^{2}} \left| = 0$ $D_{E(x)} = \frac{1}{2} \frac{1}{(1 + e^{-x})^{2}} \left(e^{-(-x)} - 1 \right) = \frac{1}{(1 + e^{-x})^{2}} \left| = 0$ $D_{E(x)} = \frac{1}{2} \frac{1}{(1 + e^{-x})^{2}} \left(e^{-(-x)} - 1 \right) = \frac{1}{(1 + e^{-x})^{2}} \left| = 0$ $D_{E(x)} = \frac{1}{(1 + e^{-x})^{2}} \left(e^{-(-x)} - 1 \right) = \frac{1}{(1 + e^{-x})^{2}} \left| = 0$ $D_{E(x)} = \frac{1}{(1 + e^{-x})^{2}} \left(e^{-(-x)} - 1 \right) = \frac{1}{(1 + e^{-x})^{2}} \left| = 0$ (c(-)-63(-)). 45 x5 2) ologo(yours)= 08(...) = 2 (1-602). Xi Yi Dque) = An + Zi & (1-60) xiyi => >> WARD! AWARD + Zi (1- 15 (45 Wifxs)) Xi45 = 0

12 Xwo E, En MO, 05), 02- upleare P(w)= N(w/ m, dief (s)) - m, drag(s) - neighene a) p(y, w 1 X, n, s)= 12 N(y 1 Xw, OI) : N(w/w, diag (s)) di p(w/X,u,s) = p(y, w/X,u,s) = My/Xw, o.D/Mw/m, diag(s))
p(y/X,u,s) = p(y/X,u,s) b) p(y1×45) = Sp(y1X, w). p(n/m, s) du =

(malgougottu Rammuguer

= p(y, w1×45) p(yw/Xrs) pully is s) sarangelyne. p(y/x,w)- représentes les cogramentes =) > plul X, m, s) - rose raplamentes. b(w/X, n,s) = N(w/µ; Z') -N(d/p'; Z') p(y | X, w) = N((y) / Max (x, z) = N(M, d, E) P(w/, M, Z) = N. (w/. M, Z10.) = N(8/10.) p(0) X, po, Zo) = p(0) (> 1/20, Zo) p(X/ po, 20)= p(0, X/ po, 20) p(x/po, Zo) = Mx/2, Zi) M Bloo, Zo) N(81(25-4-27) (25-4-27) (25+5-3)-2) exp (-{2(x-0), 5, 5, 5 (x-0), 6 to (-5(10-4), 5, 5 (0-4)) orp (-2 (3- (20-42-2)-1 (20 % + 2-2 8)) 5. (20-42-1) 8 ×(0-(20+2-1)-3(20/0+2-1X)(20-42-1))) 2 exp (-1/x : 22 2 x - 20 2 x + 6 2 2 0 + 0 2 2 0 - 29 20 20 20 + 10 7 20 -1 1/3 - 2 (20 7 2 3 a' - E (20 2 2 3 a 1 2 4)]?

- 10 7 20 -1 1/3 - 2 (20 7 2 3 a' - E (20 2 2 2 3 a 1 2 4)]?

· (3/2 + 2-2+)][(3/2+ 2/2)]= = op (-3/212, 3 -10, 22, 2) - (5, 30+5, 2), (2-2-2-)~(至水0-至子)特色 (20-10) (20+ 2-2) - (23 /6) ++ +7(2,20),(2,23,4-25-4-(5,4),(22,32,0),(2,4)/ X1270 (202, 5, 0)-3, 5, 2)4 Dept to (I-(27-2-)-127)+-- 5 (20, %) 2(5, 5 20, 0) - 5 - 5 - 5 + 4 - - 3) N(X14, H)= (8-5) TH-2(x-5) = x H-2. x 1-25 1/4-1/4-1 nos ymplantas mendente H-4 . Z-1(I-120 (20 2, Z)-1212) H= (5- (20-1. + 27) = 27) -1 27. 4=4.27-1 (20-2+2,2) 20 for 22-2 (20-4-2) 20 for Z. (20-2) -2, 20-0 fo = fo allxp(x)fo, 20)= M(x | 1 H) H= (I-(20-1+2-1)2-2)-127 for m., To = diag(s) P(ylm, das) = Myty, H) Mylm, H)

= Xoling (S) XT Zizor J Mo & XM. THA EZIAJ-0 H = (I - (Zo"+Z")-1Z")-2 2 ((35-42-7)-(25-2-1)-(2-1-2-7)なー · ((20-4-27-1)-1-26)-12; -26" (25-2-2)-2; 2 オ= (エトラルミーク)ゴ= 30+34 P(y/X, m,s) = N(yXm, dias & I+ X diag (s) XT) p(y/x, n, s) ~ {detall esp3-{(y-Xm)H-2(y-Xm)}}

g(y, y, s) ~ {detall esp3-{(y-Xm)H-2(y-Xm)}} 9) Ech 3 mo 1. Xmo = y, ro max ply/x, m,s)= My Xno, Each of but of = Mg | Xmg, 6° I) => d no = mo, 5= 2 sd. Cech 2no | Xno = y = > muh (X) = nanh (X) y) zes Desplacements grantion unbill web garganer 1) Apparagement balog: Ease was le regalice Kor-To herskullden somen galkhoden det kan umulign kedimine see ned la gregnical mest. Mar semen a) Euch \$ mol Xmo=4 ELL Seute Xpro Ze par or manh. X < 11,00

log (y1 x,m,s)= - = log 3def (G'I+ x dray (s) x+)]-- 2 los [(y-Xn) 7 (8] + X chay (s) X) - 2 (y-Xn)] # q(y) = - = 2 (y - Xm) TH(y - Xm) = /4-cualinguins / = 2021 (Xm-y) 0 H-2(Xm-y) 0 2 40H-2y + (Sm) "H = (Xn) - 20xn) "H-2y = = you-2y + mr x7H-2xm-2yoH-2xm 29m(y) 1.2x 11-2xm-2.(y+H-2x) T20 =0 20 XTH-2X112 XTH-26 -> 2) (= (x74-2x)-4x74-2y, mesa sunst supply in = m(S) (orrunalestenous in que queuxpolericas s) Tereps wouther here & 3 = argune & log det H(s) - \frac{1}{2}(g-Xm) H-1(s) (y-Xm) AND H= GIJ+ZSK X, X, X, I ye Zyus West At HE PIHP, H'- gearmen. 41 Py XXI2 PT X'P, rge PTP= I, X'-guerouw.

M12 PMP H2 02 PTP+ X drag(s) X'= 01 PTP+ P'drag(s.b)

H12 PTHP H2 02 PTP+ X drag(s) X'= 01 PTP+ P'drag(s.b) · PT = PT drag (8x +00)P 2) y'= Py

X=PX

H'= diag (s +62)

Toggether. S= h.in. (2 -02,0)

Toggether. S= h.in. (2 -02,0)

W3 hozao m=204. 4) P(k) p(k) h, pe, pr) = (n2) pates pa) no ho (k2) poh (2p) no ho. V.K. Y MONETO gla Corbatus spiel a plane, so one zgyreins
ogran lepostroctor -200 lepostron borregens open. Armapria paragregario: PAN UTO, SJ - Fich Min he whelh inospopular s ran boulgastus clienton, to degler outstand 400 portuguelesto. p(k, popela) = (he)psho(y-po) no-ha P(h, pg pelu) = [(hi,) pehi (1-pi) ho-hi. U(ps 1 50,20). · U (pr 100,00) DIEO, 27 - compareno e p(h/h, papa) u of UE0,27 ≥ B(4,2) ≥) h q. (pelha, na) 9(paths, Na)= 3 plk, pr, puln) Jp(h,ps,p.th) 9(pa, pa / kz, nz) = p(k, pa, pa In) wh sp(h, pz,ps(n)dpedpz 9(n2/h2, n2) = p(4,p2/n2) Sph.pslnz) dpz. Stor (ha) pihi (1-pi) na-ha dpa = = (na) { po ha (1-pa) no-lea dpo = (na) (na ha)! ha! = no! (na ha)! ha! = ka (na-ha) (na 12)! = ka (na-ha) (na 12)! = (n2+2) => ((p2/h2,n2) = (1/2) pho (2-ph) h3-62 ((p2/00/1)

Mo! p(ka,hrl.p, ma,nr) = Sp(h,polhe) =dpo = = 2 (m2) (m2) by by by (4-b) ma-pro (2-b) my gyb = = (h1)(K1) Sph2-ph2 (17) norm-theart.) dp = = (\(\frac{\mathral{n}}{\mathral{n}} \) \(\frac{\mathral{n}}{\mathr P(MILLS) ~ P(4/1, 4) p(M=214n) 1. 1/42. 1/42. 10 k. po k. p (K=1/h,n)-? 9he)!(ghe)! . ((g-2)(h+4,))! (h+6)! q(llor he)+2)! hs!((g-2)(h2)! hz!((g-2)(h2)! (h) hr. ((4-2)42) (4-2)kr. (2006/4) (4 (harks) (4 (harks)) (4 (har exp: (9h2) ahr. (9h2) ahr. (9-2) (4-2) (h2h). (4-2) (h2h) (h2h) (h2h) (h2) hi. (q-2) (q-1) h2 (h1) (q-1)hy [q(h2+h)) (h2) (qh2) (qh2) (qh2) (qh2) (h0) (qh2) (qa2) (q (201): Jaghi Jaghi Sahi. Sangashi. . Jee (g-2) he the Dollkooker) V 202 glhorke)? - 19 J9 J9-1 192 JAS JAS 542. U20 Jan Jan Ja De proposition of the proposition of the many => P(k=11 k, n) & 10000 . That 2 0,79. The to min 12pip = 2. In 20, 2 PMa a Mar hars hers a son name 0,29 no my morn. = 0,28 (non)(non) (20 2 2 2 =) S) Dus > Dus Mpuren upa 10>>1 purs>> purs Dance appoints liegers money reflere legs pospoguis nyme Begunes cigs , elect his - his - por possers y les fresh spenoposies orioniseus les pareis Morapularens portegy bodopun. alegotavan, lell Constanense no noglader molepare resovert, was seguing 6 garran ayx His (propres)

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Du (PIIQ) - I play & deldr), 4p pcdx) - pas) u (dr).

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Syl 4 (x) - water lepa to x he obgasiena lepagneras.

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Beau

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where Dar (PILQ) = 100 of spoking & dnown - Splay g dn - Splay - Splay = - S(9-p)du = - Sqdu + Spdu = - Sqdu +2 20 Agg = 9-1