Machine Lunny Sep 8,2021 Last Clause GDA (Generatur) Disonmente 5x y27/12 Nain Royes: [(Gonerahu Model) Antomated Exper 7 E {0,73 Feur D'arrober - 35 ymphra 74 20,13 N/Y Lun / Medium/High {xw,yhi}~~ Ply (n) 2250,13 2251--- L3 NE R > Generative Model: 1 4 y~ Bernoulli(1) (2/4 1 1 N(M,2) = [For 60A] (5M1, 2)

Naive Bayling KIRK A Conditional x) -T xx/ A 17P171377 P(21- 2n) g) AJE 80,13 Naure Bayes A SSzuphm Features) Affributes are independent of each other given Cough I cold | Flu Ju2 Cough × Cold? Now Beauty my P14) P12/3) P/7/2)

Effectuely we can extinct the parameter working to each attached interpretly

P(N/y) Ply) = TP(N) 3 = TP(N)y) P(8) (27) y) P1y) 3 Nomehal Eargner PlyIn) argnyan Pln/y) Ply) (B1d Chilb asfuex Generatur_Modil: I P(n,y)=p1y) yn Bernoull. (4) n/y ~ pependen fru of n } nam

Nay ~ pependen fru of n } nam

Assneyting ng/y=on Muthnouth (0,1/4=0 25) y=2 ~ Multimouldir (Os) y=2)

parameters of nullimoulli

[Os) y=0 = (Os) y=0-- Osly 2014-0 07) y=1 = (011) y=1, -- gily=) 2 proling=1

6=F Il Log- Likethood Discrete Gris Aside >1 argnus LLIO clay mor nERM Bays Assny huz (4, 2021) y= 350) かりがらいいいい It farous ~ D(NL) # of TP/4) 1=1) This LL(0) = 69 17 P(x4, 40); D) ~N(41,22) My = (M11 - An) = 3 log P(2141, 44); 0) 21 = Diag (5) = 2 (24 (44); 4) Gamban Nam Buye = 2 15 ym=03 bg ply=0,4) + 12 ym=13 bgp/ymi + 2 2 [(P) 2) 3 (T2

7=1 T2:- 2 [3 [12 y l = 03 log P/24]) y h = 0;0) + 1 5 4 4 1 2 for Plant 1 3 4 1 5 10 17 + 1 { y = 13 by p() () () 1{yh=0} 21{xy=1} e|yh=0 25 ym= 13 2 12 xy=e3 by P(xy=e)y=1 (Φ, @ δείγο31-1, { Osely=13e=2) 10 1710) Analyholl of all paraeter was \$ 03614=03c=1 cm not indepulset 20 Je | y= 23 e= 1 TH(0)
505814=13e=1 7p2210) m 15441-17

 $0 = \frac{1}{12} \frac{12}{12} \frac{1}{12} \frac{1}{$