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Bayesian Learning

P(Manchesters Win) = 0-7 (1) (00) = 0.3

P (Packed Pub) wind = 0.9 P (-- 1 Koss) = 0.6

p (wm I Pained Pub) = P (PPIW) x P(W)
p (PP)

= 0.9x0.7

0.9x07+0.3x0.6

= 0.63 - 0.63 0.63 + 0.18 = 0.81

P(Nf) = 0-3

Plate 1 - 0 8 P (diel Reine) = 0.1

P (die 1 not recieve) = 0-8.

P (wjoyot Idie) = P (die (NR) x P(d) P (dead)

 $= \frac{0.8 \times 0.3}{0.9 \times 0.3 + 0.1 \times 0.7} = 0.77.$

P (gold) = 0-1 P (coal) = 0-3 P (none) = 0.6 P(+vel coal) = 0.8 Pl+vel nonel = 0.2 P(gald/+ve) = P(+ve)gold) P(gald)
p(+ve) = 0.8 × 0-1 0.8 x 0.1 + 0.4 x 0.3 + 0.2 x 06 = 0.25 10) P(M/tve)= P(tve/m) P(M)

P(tve) = 2(101) OD5 x 0.05 0.95 x0.05+ 0.3 x0.95 = 0.1428.

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PLMIANE. -VC) = P(P. -VC) > PED)

= P(+ve/m) P(-ve/m) P(m) P(+ve) P(+ve)

P(+ve) C1-P(+ve))

 $\frac{0.002375}{0.6675 \times 0.3325} = 0.017$

p(No Rain) = 0.2 p(No Rain) = 0.2 p(tol / Rain) = 0.25 p(-ve / Rain) = 0.25

P(+ve/N, Ruln) = 0.15

P(-ve) No 11) = 0.85

P(RI-Ve) = P(-VeIR) P(R)

P(-Ve)

= 0.25 × 0.8

P(R) P(~~e1p) + P(Z) + P(N12)

= 0.2 0.2+ 0.85 x 0.2

= 0.5405

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(60	Phic konguniya = C
	P(c) = 0.0001 P(c') = 0.999
	P (Pur 1 C) = 0.67 P (pur 1 C) = 0.6 P (pus / 5) = 0.99
	P(c1 pos. para) = P(posic) P(para) p(c)
	17. (Bol () & (Paymer () 2 () +
	P(poster) PLPonta (D')
	2.99 × 0.64 × 0.0001 + 0.04 × 0.6 × 0.994
	= 0.000633.6 = 0.00263 0.2406
(17)	P(D) 1 Dos. Poim) - P(Pos)
	P(pos 1 pos) 2 P(Puh, 10) P(10) + P(pos 1) P(Dah 16) P(c')

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(0.99) 2 +0.64 ×0.0001 , 0.0613

Ves Repeating may improve.

Mand set = add time > 2.5, Age < 5.5

cluming = yes

P((= Yes) = 5/10 P(C=NO)=5/10

P(n; old 1 C= YE) = 215

PCH = 200 1 C = Yes = 215 PCT> 2-51 C = NO)=315

PL M=old 1 (=No)=0 P(A = SS 1 C= Yes) = 215

P(T22.5) (=Yes) = 215 P(AESSIC=NO) = 315

= P(N= uld | C= Yes) x P(T> 2-5) (= Yes) x

P (A = 551 C = Yes) x P (C = Yes)

 $\frac{2}{5} \times \frac{2}{5} \times \frac{2}{5} \times \frac{5}{10} = \frac{9}{125}$

8
$$N(Y, M, \sigma) = \frac{1}{2} \frac{-(M-M)^2}{2}$$
 $X = 3.87, Y = 5.25$
 $(X - X)^2$
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N(pc+7, H, b) = 1 (24)

N(Y:4, M, 0) = 1 e-(4-3.25) 2 5272 (185)

= 0-172

P(+ve) = P(x=7, y=4) x P(+ve)

= P(x=7) P(Y=4) × P(not)

= 0.07×0.172=0.01204.