9373 N 0

15 Feb 2018

Exp: rain his accorded

(I Pain Our Bug

San parolo

One Solution.

P450,4 P3 =0,2

0-12 RIOIY

Rain Set = \$10,113 Rani Sun = 301, 113

Rain bothdays + {11}

Rai Weekend . 201, 10, 113

5, + B + P3 + P

Paris Sat) 40,6+ P3+P4

naw san

(3) PC Main this weekend) = P2 + P3 + P4

11 42 Py 20 3°018

P(now sut) = 0, 6 Prom (Sun) = Of Planin Sat)=/ > Polan this weeken? /+ /- 2 (Bun San) = 1 PErcia weekend) = 0. (P(no pain weekend) = (1-0.6)(1-0.4) & ind P(voi both days) = 0,6 x0,4 P(AUB)=P(A)+P(B)-P(AB) HB= row both days P(AB)=

tsay. Conclid local Prob P(AIB) = P(A given B) = P(AB)

Bycs Theorem

P(B/A)= P(A/B)P(B)

C78 P(A)= & P(ABi) = {P(A (Bi) P(Bi) } (Bi)

P(A)

Bi Bi S Chi

P(/=1/x=1)= 1-E is E= V => binary 54 mmodre

P(x=)=P

Squed R=1=(0=x) 0=x)b Squed A=(0=x) 1-3/3 Jan 8262 5 2 (15x) 0=x/2

P(Y=1)=P(Y=1 | X=0) P(X=0) + P(Y=1 | X=1) P(X=1) d (3-1)+ (d-1) x =

P(x=0) Y=1) = P(Y=1 | x=0) P(x=0) = V(1-p) P(x=1/4=1)= P(4=1) x=1) 10(x=1) = (1-E)p P(Y=1) POKED (4-1)x * < (3-1) (re) P + V (1-8)

Receiver gets Y= (P(X=) () + a posteriori prob P(x=1) = Subsect X 17 a priori prob if (1-E)P>7(1-P) 12x=1(Y=1)>P(x=0)Y=1) (MAP) a posteniori Rule Maximum