Date	

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DH-	1221	goment	1

Maibu Vora

D:1) Calculating all the posterior & prior

For prior phobabilities for the following.

Att Hibute.	ontime	Late	Verylate	Cancelled.
Day: Weckday	9/14=0.64	42 = 0.5	3/2=1	0/1 = 0.
Saturday	2/14=6.14	12=6.5	013:0	y ₁ = 1
Sunday	1/14 = 0.07	0/2=0	0/3=6	0/1 = 0
Holiday.	2/14 = 0.14	0/2=0.	0/3=0	0/1 = 0.

season:-

seaspring	4/14 = 0.29	0/2=0	0/2=0	0/1=0
Summer	6/14=0.43	0/2 = 0	0/3 = 0	
Autumn	2/14 = 0.14	012=0	1/3 = 0.33	0/1=0
Winder.	2/14 = 6.14	42 = 1	2/3=0.67	0/1=0
			13-0.64	0/1=0.

Fog :-

None	5/14=0.36	0/2-0	013=0	0.
High.	4/14=0.29	42=0.5	Y3 = 0.33	1/1=0
Normal	5/14=0.36	1/2=0.5		71=1
7	1 - 1	40.00	213=067.	0/1=0.

Rain

None

Slight.

probability.

3/14 = 0.36	et717 = 0.2	ptv -
8)14= 0.07	0/2 = 0	0/2=0.33 9/1=0
1/14 = 0.07.	1/2=0.5	2/3=0.64. 11=0
		13-0-67.

Heavy

14/20 = 0.70

2/20= D10 3/20=015

1/20 = 0.05

Date	1	1
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Instance. Weekday, Winter, High, None >2 repulated in the entry case: -1 00 class = on time = 6.70x 0.64 x 0.14 x 0.29 x 0.36. = 6.547 XID-3. = 0.006547' The fore pulling that a relative Case): Class = Zate. = 0.10 × 0.50 × 10 × 0.5 × 0.5 = 0.0125. Cax 3: Class = Very late. = 0.15 X1.0x 6.67x 0.33x 0.33 = 0.0109 -0000 -Case 4: Class = Cankelled = 0.05 x 0.0 x 0.0 x 1.0 x 0 2

: Case 2 is strong.

The instance will be eategorized under class Late

= 0. year contrast to engale added one will

(0:2) Hor Preferred neading and Gender one not correlated in the group.

the Both are not correlated.

- computing the x2 value,

eij $x = count(A=ai) \times count(B=bj)$

 $X^{2} = (250 - 90)^{2} + (50 - 210)^{2} + (200 - 360)^{2}$

+ (1000-840)2

840.

= 254. 44+ 121.90+ 71.11 +36.48 = 567.93.

For 2×2 table, degree of freedom are (2-1)(2-1)=1.

to reject the hypothesis at 0.001 eignificance level is 10.828 (took from X2 dietribution take)

since the computed value is above this, we can reject from the null hypothesis that genden and preferred reading one independent

: We conclude that 2 attributes agre correlated for the given group.

allsed the formula: X = Z Z (oi; - erj)2