250	PAGE No.
	DATE / / /
	Maries:
Q. 17.	Applying Naive Bayle's Classifier to
Q.	Applying Naive Style.
	Map luput texplex into accurate to classes.
	ture used fo
	Table closs has A diff. value, we need to
	find all the prior & posterior probabilità
	p(ou time) = 14
	20
	D(1+2)=2
	$P(\text{Lafe}) = \frac{1}{20}$
	p(very Late) = 3
	P (caucelled) = 1
	1 1'5'1'0:
	Calculating posterior probalitities.
	for attribute 'Day'
	P(weekday/ou Time) = 9/14
	P( week day/Lat)= 1/2
	P ( weekday / very Late) = 3/3
	0,0
	1 1 1 conselled) = 0 c
	P (weekday / cancelled) = 0/

	PAGE No.				
	Similarly coloubiting posterior probability				
-	Simil	917 19 -10	at Moult	or volve of	atty i bute
	for	act 6-100y			1
	Day	outime	date	very Late	careelly
110	Day -	9/14	1/2	3/3	0/1
Acres .	urday /	2/14	2/2	0/3	1/1
	day	1/14	0/2	0(3	6/1
-	1's day	2/14	1/2	013	1 0/1
	Attri	bute see	264	-11.4.139	
			1 1 1 1		
	Season	ou Time	e date	very late	cancelled
	spring	4/14	012	0   3	1/1
	Bunner		0/2	0/2	w/\
	Autono	2/14	012	113	0/1
	winter	2/14	2/2	2/3	0/1
	Attrib	ute 1f09	1		
		ou Time	dafe		Concelled
	1 Vone	5114		very date	
	High	4114	0(2	- 13	0/1
	Nogmal	3/14		1/2	1/1
	0.	-/14	1/2	2/3	0/1
	Attribute Raju?				
	Rain		1.		Cancelled
	Noue	6/14		very Lake	0/1
	slight	6 14	1/2	1/3	-11
	Heavy	2/14	1/2	6/3	111
			-/2	2/3	
				Scanned with Car	

PAGE 193 / OATE / /
Apply Nairos Bayes formula.
PE PNIZ (ou Time) = P (ou Time) = P(we-day/outine)
outime) × P(Noua / outime)
= 14 x 9 x 2 x 4 x £ = 0.0073 20 14 19 19 14 Sinilarity
$P_{NB}$ (Late) = 2 × 1 × 2 × 1 × 1  20 2 2 2 2
PNR (very Late) = 3 × 3 × 2 × 1 × 1
= 0.041
PNB (cancelled) = 1 x 0 x - x 0 x 1 = 0
PNB (date) > P  PNB (date) is highest
The correct classification is date.
Any other ungeen coinstances prediction can be found out by this method,

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	[ cure / / / ]
02	
-	To test hypothesis that gendes as
No.	preferred reading are independent,
	je. There is no correlation beth I hen.
7	Using cal Square Test.
	ou of the state of the
1-	The contingency table size is 2×2, which
1	
1	4 y vec ou
1	11-10 P 11-10
1	male female
~	Fiction 250 (90) 200+ (300)
1	on fiction so (210) 1000 (840\$)
-	
1	Degree of free don = (2-1) x (2-1) = 1
-	2 2
-	x2= \( \frac{2}{5} \) \( \frac{2} \) \( \frac{2} \) \( \frac{2}{5} \) \( \frac{2}{5}
-	
4	Oij - observed frequency
-	Cij > Sor peed ed frequency.
	2
	$\chi^2 = (250 - 76)^2 + (50 - 210)^2 + (200 - 360)$
1000	70 210 300
	+ (1000 - 840)2 2 507. 93657
	340
-	Referring the table, for degree of freedon
The same of the sa	1. Se siquificant 0.01,
A CONTRACTOR OF THE PARTY OF TH	

-2 traces are Road to 7. x2 value needed to reject hypothesis 6. 675 our received value is above this value. Therefore we can reject the hypothesis that gender & preferred reading to are indep-endent and we can conclude texat two all sibutes are correlated.