	SHOBHIT VERMA Page No.					
	201813 006 2 Date					
	Tutoriel - 7					
	Travel -> Foreign Purchase					
-#	Frand					
$-\parallel$						
->	Increased prob of trevel makes fraud					
-	more likely					
	Torroad and will of Commendate					
	Increased probability of foreign purchase makes froud more likely.					
	Foreign purchase is enidence for frend.					
->	Travel d' frand can cause foreign purchese					
-	Travel explains pareign purchase & is					
	thus evidence against frond					
	J					
	True Fo	Isl_	Travel	Frand	7	F
	0.05 0.	95	-7	<i>T</i>	0.9	0 · 1
	. 11 -	<u></u>		<u></u>	0.9	0,9
	travel 7	099	7	F	0,01	0,1
			<u> </u>		0,011	<u> </u>
	F 0.002 0.998					
1)	travel = ?	F.P.= +x	ue, frand=	=7 [class.	fy hi	dden 1ep7
	$P(frand = 7 F.P. = 7) = x [P(frand = 7, tranel = 7) \\ x P(F.P. = 7)$					
	x P(F.P7)					
	=x[P(frand=71tranel=F)x P(F.P.=T)+					
	$P(F \cdot P = T) +$					
	P(travel=F, frand=7)xP(travel=F)					
	= a[0.01 x 0.9 x 0.05+0.002x01095]					
	= 0.000640					
				And the second s		
	,					

Service Access

Similarly, P (frand = F/F.P. =7) = \(\int \tag{0.99} \times 0.998 \times 0.01 \times 0.98} = 0.054051~ = 0.0117 · × = _____ 0.00064+0.05403 = P (frand = T | F.P. = T) = 1.147%. P(fraud = 7/F.P. = 7, travel = 7) = 0.00045 x P(frand=FIFIP=7, travel=7) = 0.04455 = 22.222··· < = 1 0.04488+0.00045 : P (fraud = 7 / F. P. = 7, +ranel = 7) = 0.000452 ⇒ P = 0.01 = 1%.