Bayesian Network Travel - Foreign Pwichar Throughold probability of triavel makes fraud more likely. Triavel can cause fraud Travel and Fraud can each course foreign purchase Travel explains Foreign purchase and so is evidence against Fraud Tome | False 0.05 | 0.95 Purchase True True 0.9 0.1

France True 0.10 0.9

France True False Fals Travel Foreign Travel Frank T F Tour a Classify the hidden blaudh [Thank 2? foreign purchan = True frand =?]

P (Frand = True | Foreign Purchan = True)

= \(\pm \) [P (Frand = true | travel = true) \(\pm \) [Foreign purchan

= true | travel = true; travel = true) \(\pm \) (travel = true) 2 x x [0.01 * 0.90 * 0.05 + 0.002 * 0.10 * 0.95] 2 x [0.00045+0.00019]

	Date Page
N-4	
	D-00064 ~
	P(Frand = False / Foreign purchan - time) 2 x [0.99 x 0.90 x 0.05 +0.098 x 0.01 x 0.95]
	9 x [00455 +0.009481] 0-05403) x
	0.00064+0.02 4031
	P(Ferand = true / Foreigner - Purchase = true) = 0.000642 = 20.00064x18:29
	20.01170
	. P (Ferand - true / Feoreign pundax - true) 21.174.
2	P(Frand = terre / Forreign - Purchan = true, travel = true)
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	× 2 1 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	0.00045+0.04465
	P (Ferand 2 term / Foreign Preschon 2 to to
	P (Ferand 2 term Foreign Purchase 2 term, travel = tem)
	2 0.01
:	P (Ferand : true Posseign - Purcher, tram = term) = 1.0./.