## NAINE BAYES CLASSIFIER

No	Lolas	Type	Orgin	Stolen	
1	Red	Brogs	Domestic	Yes	
2	led	Sports	Domestic	No	
3	Red	Sports	Pomestic	Yes	
4	Yellow	Sports	Domestic	No	
2	Yellow	Sports	Imported	Yes	
6	Yellow	300	Imported	No	
7	Yellow	SUV	Imported	Yes	
8	Yellow	201	Domestic	No	
9	Red	SUV	Imported	No.	
10	Red	Sports	Imported.	Yes	

New Instance = (Red, SUV, Domestic) -> (yes or No)

Color	Yes .	No
Red	315	1215
Yellow	215	1315
	1	

15 yes samples samples

Type	1.NK/	Xex1				
Sports	ANS 5	XX 6				
SONX	X 2134 A	315				
ig se	1.15	No				
Sports (UV	415	315				
	113	315				
Origin	Origin   Yes   No					
Origin Domesti	y ais	315				
Imported		215				
P(Yes/New Instance) = p(Yes) x						
= pcles) X						
PCLOTON = Red Yes) x						
P(Type=SUV) x						
Plorigin = Domestic Nes)						
P(Yes/New Instance) = 5 x						
3 x 1 x 2 = 0.094						

P(No) New Instance) = p(No) X

P(Color = Red(No) X P(Type=SUV(No) X P(Origin = Domestic(No)

P(No) New Instance)= T x2 x3 x 3 10 5 5 5

= 0.073

P(NolNew Instance) > P(Yes) New Instance

-x-x-