

Naive Bayes Homework

CS 4499/5599

For this homework you will work through applying Naive Bayes to classify data. For the given training set:

Size (B, S)	Color (R,G,B)	Output (P,N)
B	R	P
S	B	P
S	B	N
B	R	N
B	B	P
B	G	N
S	B	P

1. Create a table of the statistics needed to do Naïve Bayes
2. What is the output be for a new instance which is Small and Blue?
3. What it the Naïve Bayes value and the normalized probability for each output class (P or N) for this case of Small and Blue?