BRIHARI THYAGARAJAN 1066 08/03/5053 ML Lab 7 Task-1 For given can dataset, apply Naive Bayes Algorithm for the classification. Show All the steps of the training phase and Identify the class for test data point (colour = Yellow, Type = Sports, Origin = Domestic). Solve answer on paper and upload the image Example No Colour Origin Stolen? hype Domestic Yes Sports Red Spor by No Bed Domestic Tes Red Sports Domestic No Tellow Sports Domestic Tes Tellas Sports Imported Imposted Yellow No V U 2-Imposted Tellow SUV Tes SUV Tellow Domes Hc No SUV Red No Imposted 10 Sports Fes Ked Imposted

We know,

P = rafio; p -) No. of success, q -> No. of fails = 1-p.

P('Yes') - 2 x 4 x 2 x 5 10

P('No') - 3 x 2 x 3 x 5 = 0.072 (color) (Type) (origin) (Total)

P('No') > P('Yes)

Class = Stolen = No