Naive Bayes Classifier: An Example · Compute PCXICi) for each class P(age = "<= 30" | buys_computer=" yes") = 5/11 = 0.455 P (age = " = 30" | buys _ (om puter = "no") = = = 0.143 PCincome = "medium" | buys_computer = "yes") = 2/9 = 0.222 Pcincome = "medium" | bys_computer = "no") = 2/5 = 0.4 PC student = yes 1 buys _ computer = yes) = 6/9 = 0.667 PC student = "yes" | buys_computer = a no") = 1/5 = 0.2 Pccredib_rating = "fair" | byys_computer = "yes") = 6/9 = 0.667 PCcredit_rating = "fair" | buys_computer = "no") > 2/5 = 0.4 P(x1ci) = P(x1 by_ computer = " yes") = 0.455 x 0.222 x 0.667 x 0.667 z 0.045 pcxlbuy_computer= "no") =0.443 x0.4 x 6.2 x 0.4 = 0.002 PCXICi) * P(ci) = PCXIbuys-Computer = "yes")+ PCXIbuys-computer- "yes") 20.045 x 0.643 20.029 pcx1 busc_Computer = "no" 1 + pcx1 buys_computer = "no") = 0.002 × 0.957 = 0.001

age	income	student	credit_rating	buys_computer
<=30	high	no	fair	no
<=30 •	high	no	excellent	no
3140	high	no	fair	yes
>40	medium	no	fair	yes -
>40	low	yes	fair	yes.
>40	low	yes	excellent	no
3140	low	yes_	excellent	yes-
<=30.	medium	no	fair	no
<=30.	low	yes-	fair	yes•
>40	medium	yes.	fair	yes.
<=30 -	medium	yes.	excellent	yes
3140	medium	no	excellent	yes
3140	high	yes	fair	yes ^t
>40	medium	no	excellent	no