oplicant ID	Age	Income	Education Level	Defaulted	20,001 -39,999	40			
	25	20,000	High School	No	410,000 59999	10-29			
	35	50,000	Bachelor's	No	40,000 - 59999 64,000 - 79999	30-39			
	45	80,000	Master's	No	40.00	1 0- 49			
	28	22,000	High School	No	80,000 - 99999	47			
	32 46	45,000 70.000	Bachelor's Master's	Yes					
	24	18,000	High School	Yes	4 11 1 70				
	38	60,000	Bachelor's	No	Applicant ID	Age	Income	Education level	Default
	32	48,000	Bachelor's	No	1	20-29	20,001 - 39,999	Hoph School	No
	29	25,000	High School	Yes	1	30-39	40,000-59999	Bach elor's	No
pplicant ID	Age	Income	Education Level	Defaulted	2		1 1		
		55,000	Bachelor's)	AD-419	80,000 - 99,999	Masteris	No
this example, w	e have a ne	w applicant wh	o is 31 years old, has ar	n annual income of	4	18-29	20,001 - 39,999	High School	N_o
\$55,000, and has a Bachelor's degree. The question mark in the Defaulted column indicates that we do not know whether this applicant will default on their loan or not. We					3	30-39	49,000 - 59,999	bachelor's	4es
can use our Naive Bayes classifier to predict the value of the Defaulted column for this new applicant based on the values of the other columns.).	40-49	80,000 - 79,999	Master 1s	No
w арріісані bas	sed on the v	alues of the oti	iei columns.		9	20-29	>>0,000	High school	Yes
					8	30-39	80,000 - 79,999	Bachelor's	No.
					91	30 - 39	10,000 - 59,999	Buchelor's	No
					lo	20-29	20,007 - 39,999	High school	Yes.

X= (age=30-39, income = 20,000-59,999, Education Level = Bachelor's)

Likelihovel P(X|(;); P(age=30-39, Income = 10,000-59,999, Education Level = Bachelor's 1489) $=\frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} = 0.037$ P(XIC;): P(age=30-39, income = 10,000-59,999, Education Level = Bachelor's) No) $=\frac{3}{7}\times\frac{1}{7}\times\frac{3}{7}=0.0514$ Prior P(c:): P(Petaulted= 'Yes') = 10 = 0.3 P(ci): P(pefaulted=1N01 = 10 = 0.7 P(XICi) × P(Ci): P(x) Defaulted = yes) × P(Pefaulted = Yes) = 0.037*0.3 = 0.0771 10υ, αμνσιώ, 31 η 50,000 vin 662. βανίου Bachelor's σελλημοσημορικό. #