lmagine you work for a bank and you want to predict whether a loan applicant will defauli on their loan or not based on some demographic and financial data. Here is a sample dataset containing 10 loan applicants and whether they defaulted on their loan or not:

Applicant ID	Age	Income	Education Level	Defaulted
	25	20,000	High School	No
2	35	50,000	Bachelor's	No
	45	80,000	Master's	No
4	28	22,000	High School	No
5	32	45,000	Bachelor's	Yes
6	46	70,000	Master's	No
	24	18,000	High School	Yes
8	38	60,000	Bachelor's	No
9	32	48,000	Bachelor's	No
10	29	25,000	High School	Yes

Applicant ID	Age	Income	Education Level	Defaulted
11	31	55,000	Bachelor's	?

### · Waterists

	< 20,000	
	40,000-59,999	
	40,000-59,999	
	000,000-80,000	
	20.004-39.566	

# · dlass

C1: Defaulted = 'yes'

C2 = Defaul = 'No'

Data to be class Fied:

X- Lage 30-39, income = 40,000-59,999, Education Level = Bachdon's)

P(Detaulted / Cage 20-39, income - 40,000-59, 999. Education Lord = Bachelor's)

P(DeFaulted - "Yes") = 3 = 03

P(De Folulted - " No") = 7 - 0.7

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P(age 20-29, income = 40,000-59, and Detaulted = "Yes") × P(Education level = Bachelon's | Detaulted = "Yes")

"= x = x = 7

= 0.429 × 0.286× 0.429

# =0.052

เพื่องจากรัสกการหน่าจะเพิ่มขอ DeFaulted = "No" มีสามสถา DeFaulted คือ" No" มีสามสถา DeFaulted = "Yes" กับนั้น ผู้กับกรรวณ ในปลีปัจญ 31 ปี มีราปส 4 55,000 พละ มีจุดนิจเริญญาตั to Defaulted คือ "No"