g = arg max P (y=i | f=x) = arg max $\frac{P(y=i, f=n)}{P(f=n)}$ P(f=n) is same for all classes, we can just do: $\hat{y} = arg ma \times P(y=i, f=n) \rightarrow P(y=i|n)$ P(y=i/n)=P(y=i,f=n) <-- Will divide by > P(1=i) f=x $\sum_{i} P(y=j,f=n)$ Kunning male, Rich person, Classify them as working more on 40.5 hrs/wk. P (40.5-, M,P) P (40.5+, M,R) 0.105 0.097 robable P(M,R) = 0.202 40.5+ numinator -> core bout dram to classify divide by denom

divide by evidence