

Steps.

- (1) · Calculate the priors
- (2) Calculate likelihoods.
 - (Ognore denominator as it 15 constant) (3) Compute numerator.
 - (4) Assume all features are independent of each other.

$$P(X=(0,2)|Y=1) = P(X_1=0|Y=1) + P(X_2=2|Y=1)$$

This assumption is wot always time. This is why Hus classifier is called "Naive-Bayes" classi-NOTE fier. Else every thing will be 0 for combinations that donod LXILI.

