

08. Mushroom Classifier - Prior and Conditional Probability :

$$y \in C$$

$$P(y = c | x) \propto \prod_{i=1}^n P(x_i | y = c) P(y = c)$$

Likelihood Prior

ith feature

Feature



color =

green, brown, red

Feature value

we will find :

$$P(\text{mushroom_color} = \text{green} | \text{class} = 2)$$

$$= P(x_j^i = \text{green} | \text{class} = 2)$$

class label = 2

Feature value

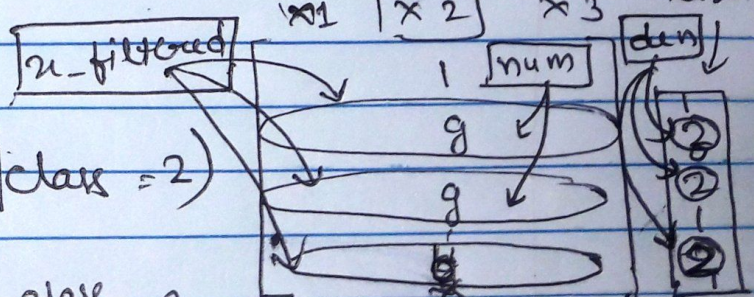
C = label

x train

y train

color feature

label



g = green
b = brown