Naïve bayes-1

Assignment Questions





Assignment



- Q1. What is Bayes' theorem?
- Q2. What is the formula for Bayes' theorem?
- Q3. How is Bayes' theorem used in practice?
- Q4. What is the relationship between Bayes' theorem and conditional probability?
- Q5. How do you choose which type of Naive Bayes classifier to use for any given problem?
- Q6. Assignment:

You have a dataset with two features, X1 and X2, and two possible classes, A and B. You want to use Naive Bayes to classify a new instance with features X1 = 3 and X2 = 4. The following table shows the frequency of each feature value for each class:

Assuming equal prior probabilities for each class, which class would Naive Bayes predict the new instance to belong to?

Note: Create your assignment in Jupyter notebook and upload it to GitHub & share that github repository link through your dashboard. Make sure the repository is public.