Q1. Bayes Theorem 1

Previous probabilities in Bayes Theorem that are changed with help of new available information are classified as

- Independent Probabilities
  Independent Probabilities
- posterior probabilities
  posterior probabilities
- Conditional Probabilities
  Conditional Probabilities

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Result

1 2 3
4 5 6
7 8

Q2. Naive Bayes Assumption

What is the conditional independence assumption?

- Presence of a particular feature in a class is totally unrelated to the presence or absence of any other class

  Presence of a particular feature in a class is totally unrelated to the presence or absence of any other class

- Features of the classifier can be considered as independent events

  Features of the classifier can be considered as independent events

- Attribute values are independent of each other given the class

  Attribute values are independent of each other given the class

- All Of Above ✓

  All Of Above

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Q3. Numerical Bayes Theorem 1

Two urns 1 and 2 contains 3 red & 4 black balls, 2 red & 5 black balls respectively. A ball is transferred from urn 1 to urn 2 and then a ball is drawn from urn 2. If the ball is found to be red find the probability that the ball transferred from urn 1 is black.

- 9/17
  9/17
- 8/17 ✓
  8/17
- 3/26
  3/26
- None
  None

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Q4. Laplace Correction

Why we use laplace correction in Naive Bayes Classifier?

- To avoid equal probabilities

  To avoid equal probabilities

- To avoid zero probabilities ✓

  To avoid zero probabilities

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Q5. Multivariate Bernoulli Naive Bayes

Which of the following is correct about multivariate Bernoulli Naive Bayes?

- We do not need to iterate over whole vocabulary in multivariate binomial Naive Bayes
  We do not need to iterate over whole vocabulary in multivariate binomial Naive Bayes
- Frequency of each feature is taken into account
  Frequency of each feature is taken into account
- Presence or absence of each feature is taken into account ✓
  Presence or absence of each feature is taken into account
- None Of Above
  None Of Above

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Q6. Continuous Distribution In Naive Bayes

What is the probability distribution for continuous values data in Naive Bayes?

- Binomial
  Binomial
- Poisson
  Poisson
- Gaussian ✓
  Gaussian

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Q7. Guassian Distribution

Guassian Distribution is symmetric is about

- Variance
  Variance
- Mean ✓
  Mean
- Standard Deviation
  Standard Deviation
- Covariance
  Covariance

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Q8. Numerical Guassian Distribution

If value of x for normal distribution is 35, mean of normal distribution is 65 and standard deviation is 25 then standardized random variable is

- 1.7
  1.7
- -1.2
  -1.2 ✓
- -4
  -4
- 1.2
  1.2

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