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QUESTION 1

A denote the event \\'student is female\\' and let B denote the event \\'student is French\\'. In a class of 100 students suppose 60 are French, and suppose that 10 of the French students are females. Find the probability that if I pick a French student, it will be a girl, that is, find P(A|B).

A. 1/3

B. 2/3

C. 1/6

D. 2/6

Correct Answer: C

Explanation: Since 10 out of 100 students are both French and female, then P(AandB)=10100 Also. 60 out of the 100 students are French, so P(B)=60100 So the required probability is: P(A|B)=P(AandB)P(B)=10/10060/100=16

QUESTION 2

Which of the following skills a data scientists required?

A. Web designing to represent best visuals of its results from algorithm.

B. He should be creative

C. Should possess good programming skills

D. Should be very good at mathematics and statistic

E. He should possess database administrative skills.

Correct Answer: BCD

Explanation: Yes a data scientists should have combination of skills like to solve the complex problem he should be creative as well as able to find new solutions and use of existing data. And solve the problem skills required are programming as currently we see SAS, R: Python, Spark, Java and SPSS even day by day new technologies are coming. To apply various existing and new algorithm using Machine Learning, or AI it require good mathematics and statistics skills (Where the programmer feels, weaknesses). Another skill required is using visualization techniques like Qlik, Tableau etc

QUESTION 3

What is the best way to evaluate the quality of the model found by an unsupervised algorithm like k-means clustering, given metrics for the cost of the clustering (how well it fits the data) and its stability (how similar the clusters are across multiple runs over the same data)?

A. The lowest cost clustering subject to a stability constraint

B. The lowest cost clustering

C. The most stable clustering subject to a minimal cost constraint

D. The most stable clustering

Correct Answer: A

Explanation: There is a tradeoff between cost and stability in unsupervised learning. The more tightly you fit the data, the less stable the model will be, and vice versa. The idea is to find a good balance with more weight given to the cost. Typically a good approach is to set a stability threshold and select the model that achieves the lowest cost above the stability threshold.

QUESTION 4

A problem statement is given as below

Hospital records show that of patients suffering from a certain disease, 75% die of it. What is the probability that of 6 randomly selected patients, 4 will recover?

Which of the following model will you use to solve it.

A. Binomial

B. Poisson

C. Normal

D. Any of the above

Correct Answer: A

QUESTION 5

A researcher is interested in how variables, such as GRE (Graduate Record Exam scores), GPA (grade point average) and prestige of the undergraduate institution, effect admission into graduate school. The response variable, admit/don\\'t admit, is a binary variable.

Above is an example of:

A. Linear Regression

B. Logistic Regression

C. Recommendation system

D. Maximum likelihood estimation

E. Hierarchical linear models

Correct Answer: B

Explanation: Logistic regression Pros: Computationally inexpensive, easy to implement, knowledge representation easy to interpret Cons: Prone to underfitting, may have low accuracy Works with: Numeric values, nominal values

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