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IBM Machine Learning Data Scientist v1

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Question: 1

Converting a neural network into the newest version of TensorFlow or another deep-learning package is what type of performance drift or software decay?

Response:

- A. Data changes
- B. Concept drift
- C. Software changes
- D. Sampling bias and selection bias changes

Answer: C

Question: 2

Which of the following are signs that AI is being successfully infused into the organization?

(Choose Three)

Response:

- A. AI technologies are integrated into key business processes.
- B. AI usage is restricted to a small number of specialists.
- C. Employees across the organization are trained in AI capabilities.
- D. There is a clear governance framework for AI ethics and use.
- E. AI projects are often initiated but rarely completed.

Answer: A,C,D

Question: 3

What does an R^2 Score (coefficient of determination) measure?

Response:

- A. It computes the average squared difference between estimated values and the actual value.
- B. It computes the square root of the average squared difference between estimated values and the actual value.
- C. It represents the proportion of the variance in the independent variable that has been explained by the dependent variable.
- D. It represents the proportion of the variance in the dependent variable that has been explained by the independent variable(s).

Answer: D

Question: 4

A Logistic Regression algorithm is used to classify images into four categories. If each image has a 5x5 pixel dimension, what is the the number of weights required (excluding biases) for this model?

Response:

- A. 200
- B. 100
- C. 300
- D. 400

Answer: B

Question: 5

K-nearest neighbors and K-means clustering with Euclidean distance suffer from the curse of dimensionality. Is the above statement true and why?

Response:

- A. This is true. Euclidean distance, in general, is not a good metric in a high-dimensional space.
- B. This is false. K-nearest neighbors can effectively work with a highdimension space if K is small.
- C. This is true. As K increases, the number of samples required grows linearly with respect to the dimension and K.
- D. This is false. K-means clustering can effectively work with a highdimension space if given a large number of samples.

Answer: A

Question: 6

Given an SQL table 'Books' with fields Title, Author, and Genre, which query would return a list of unique Genre values?

Response:

- A. SELECT Genre FROM Books;
- B. SELECT SET Genre FROM Books;
- C. SELECT UNIQUE Genre FROM Books;
- D. SELECT DISTINCT Genre FROM Books;

Answer: D

Question: 7

What are two reasons a data point would be treated as an outlier?

Response:

- A. If the value is greater than mean
- B. If the value is greater than median
- C. If the value is greater than standard deviation
- D. If the value is below the upper end of the bottom quartile by more than 1.5 times the interquartile range
- E. If the value is above the lower end of the top quartile by more than 1.5 times the interquartile range

Answer: D,E

Question: 8

The Bayesian optimization algorithm for hyperparameter tuning has which trait?

Response:

- A. It can be used for both regression and clustering but cannot be used for classification.
- B. It requires that a user provide a list of all of the values that will be tested for each hyperparameter.
- C. It builds a machine learning model to predict which hyperparameter settings will be most effective.
- D. If sufficient hardware is available, it can try out many different hyperparameter settings at the same time.

Answer: C

Question: 9

What is one way that IBM AutoAI helps make it easier for data scientists to determine what key fields to use to join data tables?

Response:

- A. AutoAI automatically suggests joining on fields in different tables that have matching names.
- B. AutoAI automatically suggests joining on fields in different tables that have matching values.
- C. AutoAI automatically suggests joining on fields in different tables when those tables have the same number of rows.
- D. AutoAI automatically suggests joining on fields in different tables when those tables have the same number of fields.

Answer: A



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