C1000-059 Q&As

IBM AI Enterprise Workflow V1 Data Science Specialist

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QUESTION 1

What are the various components that make up a time series data?

A. trend, noise, covariance

B. trend, noise, kurtosis

C. trend, seasonality, causation

D. trend, seasonality, noise

Correct Answer: D

QUESTION 2

What is the technique called for vectorizing text data which matches the words in different sentences to determine if the sentences are similar?

A. Cup of Vectors

B. Box of Lexicon

C. Sack of Sentences

D. Bag of Words

Correct Answer: D

Reference: https://medium.com/@adriensieg/text-similarities-da019229c894

QUESTION 3

Which is a preferred approach for simplifying the data transformation steps in machine learning model management and maintenance?

A. Implement data transformation, feature extraction, feature engineering, and imputation algorithms in one single pipeline.

B. Do not apply any data transformation or feature extraction or feature engineering steps.

C. Leverage only deep learning algorithms.

D. Apply a limited number of data transformation steps from a pre-defined catalog of possible operations independent of the machine learning use case.

Correct Answer: B

QUESTION 4

Given the following sentence:

The dog jumps over a fence.

What would a vectorized version after common English stopword removal look like?

A. [\\'dog\\', \\'fence\\', \\'run\\']

B. [\\'fence\\', \\'jumps\\']

C. [\\'dog\\', \\'fence\\', \\'jumps\\']

D. [\\'a\\', \\'dog\\', \\'fence\\', \\'jumps\\', \\'over\\', \\'the\\']

Correct Answer: C

Reference: https://towardsdatascience.com/text-pre-processing-stop-words-removal-using-different- libraries-f20bac19929a

QUESTION 5

What are three operators used by genetic programming? (Choose three.)

A. reciprocation

B. mutation

C. duel

D. selection

E. sheltering

F. crossover

Correct Answer: CDF

QUESTION 6

Which distance is applied for multivariate outlier detection?

A. Minkowski distance

B. Manhattan distance

C. Mahalanobis distance

D. Euclidean distance

Correct Answer: C

Reference: https://core.ac.uk/download/pdf/233075917.pdf

QUESTION 7

What is an example of a supervised machine learning algorithm that can be applied to a continuous numeric response variable?

A. linear regression

B. k-means

C. local outlier factor (LOF)

D. naive Bayes

Correct Answer: A

Reference: https://www.analyticsvidhya.com/blog/2017/09/common-machine-learning-algorithms/

QUESTION 8

What is a class of machine learning problems where the algorithm builds a mathematical model from a set of data that contains both the inputs and the desired outputs?

A. unsupervised learning

B. mentoring

C. reinforcement learning

D. supervised learning

Correct Answer: D

Reference: https://en.wikipedia.org/wiki/Machine_learning

QUESTION 9

Which is a technique that automates the handling of categorical variables?

A. binary encoding

B. decoding

C. autoencoding

D. one-hot encoding

Correct Answer: D

Reference: https://hub.packtpub.com/how-to-handle-categorical-data-for-machine-learning-algorithms/

QUESTION 10

Which statement is true for naive Bayes?

A. Naive Bayes can be used for regression.

B. Let p(C1 | x) and p(C2 | x) be the conditional probabilities that x belongs to class C1 and C2 respectively, in a binary model, log p (C1 | x) ?log p(C2 | x)>; 0 results in predicting that x belongs to C2.

C. Naive Bayes is a conditional probability model.

D. Naive Bayes doesn\\'t require any assumptions about the distribution of values associated with each class.

Correct Answer: C

Reference: http://users.sussex.ac.uk/~christ/crs/ml/lec02b.html

QUESTION 11

What is the main difference between traditional programming and machine learning?

A. Machine learning models take less time to train.

B. Machine learning takes full advantage of SDKs and APIs.

C. Machine learning is optimized to run on parallel computing and cloud computing.

D. Machine learning does not require explicit coding of decision logic.

Correct Answer: D

QUESTION 12

A neural network is composed of a first affine transformation (affine1) followed by a ReLU non-linearity, followed by a second affine transformation (affine2). Which two explicit functions are implemented by this neural network? (Choose two.)

A. y = affine1(ReLU(affine2(x)))

B. y = max(affine1(x), affine2(x))

C. y = affine2(ReLU(affine1(x)))

D. y = affine2(max(affine1(x), 0))

E. y = ReLU(affine1(x), affine2(x))

Correct Answer: CD

QUESTION 13

Given the following matrix multiplication:

$$\begin{bmatrix} -1 & 4 & -5 \\ -4 & -2 & 3 \\ 3 & 1 & 4 \end{bmatrix} \begin{bmatrix} 0 & -2 & -1 \\ -3 & -4 & 0 \\ -5 & 2 & -3 \end{bmatrix} = \begin{bmatrix} L & M & N \\ P & Q & R \\ S & T & U \end{bmatrix}$$

What is the value of P?

A. ?

B. 17

C. 12

D. ?

Correct Answer: C

Reference: https://www.mathsisfun.com/algebra/matrix-multiplying.html

QUESTION 14

What is the name of the design thinking work product that contains a summary description of a particular person or role?

A. persona

B. snapshot

C. My Sticky Note

D. user summary report

Correct Answer: A

Reference: https://www.interaction-design.org/literature/topics/design-thinking

QUESTION 15

What are two key characteristics of cloud architecture that could benefit AI applications? (Choose two.)

A. constant attention needed for maintenance and support of the cloud platform

B. capable of managing and handling dynamic workloads with automatic recovery from failures

C. hybrid clouds enable the deployment of distributed large neural networks

D. support for common business oriented language (COBOL) applications

E. the hardware requirement can be scaled up as per the demand

Correct Answer: BE