

C1000-059^{Q&As}

IBM AI Enterprise Workflow V1 Data Science Specialist

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QUESTION 1

A data analyst creates a term-document matrix for the following sentence:

I saw a cat, a dog and another cat.

Assuming they used a binary vectorizer, what is the resulting weight for the word cat?

- A. 0
- B. 1
- C. 3
- D. 2

Correct Answer: B

QUESTION 2

With only limited labeled data available how might a neural network use case be realized?

- A. by assigning random labels
- B. by increasing the depth of the neural network
- C. by creating random data
- D. by using a customized pre-trained model

Correct Answer: D

QUESTION 3

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 4

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 5

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 6

The formula for recall is given by (True Positives) / (True Positives + False Negatives).

What is the recall for this example?

		predicted	
		negative	positive
actual	negative	3	2
	positive	4	1

- A. 0.2
- B. 0.25
- C. 0.5
- D. 0.33

Correct Answer: B

Reference: <https://machinelearningmastery.com/precision-recall-and-f-measure-for-imbalanced-classification/>

QUESTION 7

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 8

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 9

Which statement defines p-value?

- A. It is the probability of accepting a null hypothesis when the hypothesis is proven true.
- B. It is the probability of rejecting a null hypothesis when the hypothesis is proven false.
- C. It is the probability of accepting a null hypothesis when the hypothesis is proven false.
- D. It is the probability of rejecting a null hypothesis when the hypothesis is proven true.

Correct Answer: C

Reference: <https://courses.lumenlearning.com/wmopen-concepts-statistics/chapter/introduction-to-hypothesis-testing-5-of-5/>

QUESTION 10

When communicating technical results to business stakeholders, what are three appropriate topics to include? (Choose three.)

- A. methods that failed
- B. newest developments in AI methods
- C. benefits of cognitive over business analytics
- D. realistic impact on the business measures
- E. differences between cloud provider portfolios
- F. alternative methods to address the business problem

Correct Answer: CDF

QUESTION 11

DRAG DROP

What is the best step by step order for machine learning pipeline?

Select and Place:

Unordered Options

- data collection
- data cleaning
- feature extraction and/or dimensionality reduction
- model validation

Ordered Options

Correct Answer:

Unordered Options

Ordered Options

- data cleaning
- data collection
- model validation
- feature extraction and/or dimensionality reduction

QUESTION 12

Which IBM Watson Machine Learning deployment method offers the ultimate flexibility in deploying a machine learning model?

A. Watson Machine Learning Python client

- B. Watson Machine Learning FORTRAN client
- C. Watson Studio Project
- D. Watson Machine Learning REST API

Correct Answer: D

Reference: <https://neptune.ai/blog/best-machine-learning-as-a-service-platforms-mlaas>

QUESTION 13

Which situation would disqualify a machine learning system from being used for a particular use case?

- A. The use case requires a 100% likelihood of making a correct/true prediction.
- B. Training and testing data for the model contain outliers.
- C. Data for the machine learning model is available only as static CSV files.
- D. The neural network for the model requires significantly more computing power than a logistic regression model.

Correct Answer: D

QUESTION 14

What is the goal of the backpropagation algorithm?

- A. to randomize the trajectory of the neural network parameters during training
- B. to smooth the gradient of the loss function in order to avoid getting trapped in small local minimas
- C. to scale the gradient descent step in proportion to the gradient magnitude
- D. to compute the gradient of the loss function with respect to the neural network parameters

Correct Answer: B

Reference: <https://www.sciencedirect.com/topics/computer-science/backpropagation>

QUESTION 15

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>

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