



C1000-059^{Q&As}

IBM AI Enterprise Workflow V1 Data Science Specialist

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QUESTION 1

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 2

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 3

Which two properties hold true for standardized variables (also known as z-score normalization)? (Choose two.)

- A. standard deviation = 0.5
- B. expected value = 0
- C. expected value = 0.5
- D. expected value = 1
- E. standard deviation = 1

Correct Answer: CE

**QUESTION 4**

Which is an example of a nominal scale data?

- A. a variable industry with categorical values such as financial, engineering, and retail
- B. a variable mood with a scale of values unhappy, ok, and happy
- C. a variable bank account balance whose possible values are \$5, \$10, and \$15
- D. a variable temperature with a scale of values low, medium, and high

Correct Answer: C

QUESTION 5

Which measure can be used to show business stakeholders the likelihood that a machine learning model will generate a true prediction?

- A. accuracy
- B. variance
- C. mean
- D. skewness

Correct Answer: A

QUESTION 6

With the help of AI algorithms, which type of analytics can help organizations make decisions based on facts and probability-weighted projections?

- A. prescriptive analytics
- B. cognitive analytics
- C. predictive analytics
- D. descriptive analytics

Correct Answer: A

Reference: <https://www.investopedia.com/terms/p/prescriptive-analytics.asp>

QUESTION 7

A data scientist is exploring transaction data from a chain of stores with several locations. The data includes store number, date of sale, and purchase amount. If the data scientist wants to compare total monthly sales between stores, which two options would be good ways to aggregate the data? (Choose two.)



- A. Find the sum of the transaction prices
- B. Select the largest transaction amount by month and store
- C. Write a GROUP BY query
- D. Plot a time series plot of transaction amounts
- E. Generate a pivot table

Correct Answer: BD

QUESTION 8

What is the meaning of "deep" in deep learning?

- A. To go deep into the loss function landscape.
- B. The higher the number of machine learning algorithms that can be applied, the deeper is the learning.
- C. A kind of deeper understanding achieved by any approach taken.
- D. It indicates the many layers contributing to a model of the data.

Correct Answer: D

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

QUESTION 9

Which statement is true in the context of evaluating metrics for machine learning algorithms?

- A. A random classifier has AUC (the area under ROC curve) of 0.5
- B. Using only one evaluation metric is sufficient
- C. The F-score is always equal to precision
- D. Recall of 1 (100%) is always a good result

Correct Answer: B

QUESTION 10

What statement is true about UTF-8?

- A. It is encoding for Latin script.
- B. It is rarely used today.
- C. It is encoding for Unicode characters.



D. It is equal to ASCII.

Correct Answer: C

Reference: <https://www.w3.org/International/questions/qa-what-is-encoding>

QUESTION 11

Which of the following entity extraction techniques would be best for the extraction of telephone numbers from a text document?

- A. complex pattern-based
- B. regex
- C. statistical
- D. dictionary

Correct Answer: C

Reference: https://www.researchgate.net/publication/318093829_Developing_an_innovative_entity_extraction_method_for_unstructured_data

QUESTION 12

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 13

What is the primary role of a data steward?

- A. they are a "blue sky thinker" who comes up with new approaches to use new data in innovative ways
- B. they have a strong understanding of the enterprise's database architecture
- C. they define data processes to meet compliance and regulatory obligations
- D. the one who collects, processes, and performs statistical analysis on data

Correct Answer: D



Reference: <https://analyticsindiamag.com/data-steward-roles-responsibilities/>

QUESTION 14

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 15

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>

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