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QUESTION NO: 1

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.

ANSWER: B

QUESTION NO: 2

What are two methods used to detect outliers in structured data? (Choose two.)

- A. multi-label classification
- B. isolation forest
- C. gradient descent
- D. one class Support Vector Machine (SVM)
- E. Word2Vec

ANSWER: B D

Explanation:

Reference: <https://www.researchgate.net/post/What-is-the-best-outliers-detection-algorithm-to-used-for-big-data>

QUESTION NO: 3

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

ANSWER: C

QUESTION NO: 4

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

ANSWER: C D F

QUESTION NO: 5

The least squares optimization technique (The Method of Least Squares) is used in which algorithm?

- A. Support Vector Machines
- B. Naive Bayes classification
- C. Logistic regression
- D. Linear regression

ANSWER: D

Explanation:

Reference: <https://arxiv.org/ftp/arxiv/papers/1804/1804.05665.pdf>

QUESTION NO: 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

ANSWER: A

Explanation:

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

QUESTION NO: 7

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

ANSWER: A

QUESTION NO: 8

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

- A. reciprocation
- B. mutation
- C. duel
- D. selection
- E. sheltering
- F. crossover

ANSWER: C D F

QUESTION NO: 9

Given two multidimensional arrays of the same data type, A and B which two Python NumPy statements give the matrix product of the two matrices? (Choose two.)

- A. `A @ B`
- B. `A × B`
- C. `A * B`
- D. `np.matmul(A,B)`
- E. `np.dot(A,B)`

ANSWER: C D

QUESTION NO: 10

What are two hyperparameters used when building a k-means model? (Choose two.)

- A. kernel
- B. learning rate
- C. number of iterations
- D. number of clusters
- E. number of neighbors

ANSWER: C D

Explanation:

Reference: <https://www.ritchieng.com/machine-learning-clustering-kmeans/>