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Exam : C1000-059

**Title : IBM AI Enterprise Workflow
V1 Data Science Specialist**

Version : DEMO

1.A new test to diagnose a disease is evaluated on 1152 people, and 106 people have the disease, and 1046 people do not have the disease.

The test results are summarized below:

| | Test predicts disease | Test predicts no disease |
|-------------------------|-----------------------|--------------------------|
| Have the disease | 73 | 33 |
| Do not have the disease | 81 | 965 |

In this sample, how many cases are false positives and false negatives?

- A. 33 false positives and 81 false negatives
- B. 81 false positives and 73 false negatives
- C. 73 false positives and 81 false negatives
- D. 81 false positives and 33 false negatives

Answer: A

2.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

Answer: B

Explanation:

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

3.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>

4.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

Answer: D

Explanation:

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

5.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

Answer: B