C1000-059^{Q&As}

IBM AI Enterprise Workflow V1 Data Science Specialist

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QUESTION 1

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 2

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 x B

C. A * B

D. np.matprod(A,B)

E. np.dot(A,B)

Correct Answer: CD

QUESTION 3

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

Correct Answer: A

QUESTION 4

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 5

A classification task has examples that are labeled as belonging to one of two classes:

1.

 90% of the examples belong to class-1

2.

 10% belong to class-2

Which two techniques are appropriate to deal with the class imbalance? (Choose two.)

A. apply dimensionality reduction to the features before training

B. impose an additional cost on the model for making classification mistakes on the minority class during training

C. lower the detection threshold of the minority class after training

D. oversample the minority class and/or undersample the majority class

E. after training, divide the model accuracy of each class by the proportion that they represent in the dataset

Correct Answer: BE

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