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# Amazon MLA-C01

**AWS Certified Machine Learning Engineer - Associate**

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## Question: 1

What are common metrics used for evaluating classification models?

(Choose two)

Response:

- A. Mean Squared Error (MSE)
- B. Precision
- C. Recall
- D. RMSE

**Answer: B,C**

## Question: 2

Which methods can reduce the training time of a deep learning model?

(Choose two)

Response:

- A. Increasing the batch size
- B. Reducing the number of epochs
- C. Using dropout during training
- D. Implementing distributed training

**Answer: A,D**

## Question: 3

What is the best storage solution for temporary storage of large intermediate datasets generated during a machine learning process?

Response:

- A. Amazon S3
- B. Amazon EBS
- C. Amazon Glacier
- D. Amazon DynamoDB

**Answer: B**

### Question: 4

What are the steps to integrate SageMaker Pipelines into an AWS CodePipeline workflow?

1. Trigger the pipeline using source code changes in CodeCommit.
2. Monitor pipeline execution and validate results.
3. Integrate the SageMaker pipeline as a step in CodePipeline.
4. Define the pipeline structure in SageMaker Pipelines.

Response:

- A. 1 → 2 → 3 → 4
- B. 2 → 4 → 1 → 3
- C. 3 → 1 → 4 → 2
- D. 4 → 3 → 2 → 1

**Answer: D**

### Question: 5

Which type of machine learning problem would you solve using a regression model?

Response:

- A. Predicting stock prices for the next week
- B. Identifying spam emails
- C. Clustering customer profiles
- D. Detecting fraudulent transactions

**Answer: A**

### Question: 6

A model deployed to production shows significant performance degradation over time. You suspect that the input data distribution has shifted compared to the training data.

What actions should you take to diagnose and address the issue?

(Choose three)

Response:

- A. Use SageMaker Model Monitor to detect data drift.
- B. Retrain the model using updated data.
- C. Reduce the batch size for inference.
- D. Evaluate the performance metrics for the updated test dataset.
- E. Change the model algorithm to one more robust to data drift.

**Answer: A,B,D**

### Question: 7

Which of the following is a built-in algorithm in Amazon SageMaker suitable for clustering problems?  
Response:

- A. K-Means
- B. XGBoost
- C. DeepAR
- D. Linear Learner

**Answer: A**

### Question: 8

Which AWS services can be used to label and annotate data for supervised machine learning?  
(Choose two.)  
Response:

- A. Amazon SageMaker Ground Truth
- B. AWS Glue DataBrew
- C. Amazon Mechanical Turk
- D. Amazon Rekognition

**Answer: A,C**

### Question: 9

What scaling policy would you use for a model endpoint with fluctuating but predictable daily traffic patterns?  
Response:

- A. On-demand scaling
- B. Time-based scaling
- C. Manual scaling
- D. Fixed scaling

**Answer: B**

### Question: 10

Which feature engineering technique involves transforming skewed numerical data to approximate a normal distribution?

Response:

- A. Log transformation
- B. One-hot encoding
- C. Standardization
- D. Feature binning

**Answer: A**



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