

# Amazon MLA-C01 Valid Test Questions & Updated MLA-C01 CBT



## Amazon MLA-C01

Certified Machine Learning Engineer -  
Associate

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### Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>• <b>ML Model Development:</b> This section of the exam measures skills of Fraud Examiners and covers choosing and training machine learning models to solve business problems such as fraud detection. It includes selecting algorithms, using built-in or custom models, tuning parameters, and evaluating performance with standard metrics. The domain emphasizes refining models to avoid overfitting and maintaining version control to support ongoing investigations and audit trails.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Data Preparation for Machine Learning (ML):</b> This section of the exam measures skills of Forensic Data Analysts and covers collecting, storing, and preparing data for machine learning. It focuses on understanding different data formats, ingestion methods, and AWS tools used to process and transform data. Candidates are expected to clean and engineer features, ensure data integrity, and address biases or compliance issues, which are crucial for preparing high-quality datasets in fraud analysis contexts.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Deployment and Orchestration of ML Workflows:</b> This section of the exam measures skills of Forensic Data Analysts and focuses on deploying machine learning models into production environments. It covers choosing the right infrastructure, managing containers, automating scaling, and orchestrating workflows through CI</li> <li>• <b>CD pipelines.</b> Candidates must be able to build and script environments that support consistent deployment and efficient retraining cycles in real-world fraud detection systems.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>ML Solution Monitoring, Maintenance, and Security:</b> This section of the exam measures skills of Fraud Examiners and assesses the ability to monitor machine learning models, manage infrastructure costs, and apply security best practices. It includes setting up model performance tracking, detecting drift, and using AWS tools for logging and alerts. Candidates are also tested on configuring access controls, auditing environments, and maintaining compliance in sensitive data environments like financial fraud detection.</li> </ul>

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## Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q35-Q40):

### NEW QUESTION # 35

A company uses Amazon SageMaker for its ML workloads. The company's ML engineer receives a 50 MB Apache Parquet data file to build a fraud detection model. The file includes several correlated columns that are not required.

What should the ML engineer do to drop the unnecessary columns in the file with the LEAST effort?

- A. Create an Apache Spark job that uses a custom processing script on Amazon EMR.
- B. Create a SageMaker processing job by calling the SageMaker Python SDK.
- C. Download the file to a local workstation. Perform one-hot encoding by using a custom Python script.
- **D. Create a data flow in SageMaker Data Wrangler. Configure a transform step.**

**Answer: D**

Explanation:

SageMaker Data Wrangler provides a no-code/low-code interface for preparing and transforming data, including dropping unnecessary columns. By creating a data flow and configuring a transform step, the ML engineer can easily remove correlated or unneeded columns from the Parquet file with minimal effort. This approach avoids the need for custom coding or managing additional infrastructure.

### NEW QUESTION # 36

### Case study

An ML engineer is developing a fraud detection model on AWS. The training dataset includes transaction logs, customer profiles, and tables from an on-premises MySQL database. The transaction logs and customer profiles are stored in Amazon S3. The dataset has a class imbalance that affects the learning of the model's algorithm. Additionally, many of the features have interdependencies. The algorithm is not capturing all the desired underlying patterns in the data. Which AWS service or feature can aggregate the data from the various data sources?

- A. AWS Lake Formation
- B. Amazon Kinesis Data Streams
- **C. Amazon EMR Spark jobs**
- D. Amazon DynamoDB

**Answer: C**

### Explanation:

\* Problem Description:

\* The dataset includes multiple data sources:

\* Transaction logs and customer profiles in Amazon S3.

\* Tables in an on-premises MySQL database.

\* There is a class imbalance in the dataset and interdependencies among features that need to be addressed.

\* The solution requires data aggregation from diverse sources for centralized processing.

\* Why AWS Lake Formation?

\* AWS Lake Formation is designed to simplify the process of aggregating, cataloging, and securing data from various sources, including S3, relational databases, and other on-premises systems.

\* It integrates with AWS Glue for data ingestion and ETL (Extract, Transform, Load) workflows, making it a robust choice for aggregating data from Amazon S3 and on-premises MySQL databases.

\* How It Solves the Problem:

\* Data Aggregation: Lake Formation collects data from diverse sources, such as S3 and MySQL, and consolidates it into a centralized data lake.

\* Cataloging and Discovery: Automatically crawls and catalogs the data into a searchable catalog, which the ML engineer can query for analysis or modeling.

\* Data Transformation: Prepares data using Glue jobs to handle preprocessing tasks such as addressing class imbalance (e.g., oversampling, undersampling) and handling interdependencies among features.

\* Security and Governance: Offers fine-grained access control, ensuring secure and compliant data management.

\* Steps to Implement Using AWS Lake Formation:

\* Step 1: Set up Lake Formation and register data sources, including the S3 bucket and on-premises MySQL database.

\* Step 2: Use AWS Glue to create ETL jobs to transform and prepare data for the ML pipeline.

\* Step 3: Query and access the consolidated data lake using services such as Athena or SageMaker for further ML processing.

\* Why Not Other Options?

\* Amazon EMR Spark jobs: While EMR can process large-scale data, it is better suited for complex big data analytics tasks and does not inherently support data aggregation across sources like Lake Formation.

\* Amazon Kinesis Data Streams: Kinesis is designed for real-time streaming data, not batch data aggregation across diverse sources.

\* Amazon DynamoDB: DynamoDB is a NoSQL database and is not suitable for aggregating data from multiple sources like S3 and MySQL.

Conclusion: AWS Lake Formation is the most suitable service for aggregating data from S3 and on-premises MySQL databases, preparing the data for downstream ML tasks, and addressing challenges like class imbalance and feature interdependencies.

### References:

\* AWS Lake Formation Documentation

\* AWS Glue for Data Preparation

### NEW QUESTION # 37

A manufacturing company uses an ML model to determine whether products meet a standard for quality. The model produces an output of "Passed" or "Failed." Robots separate the products into the two categories by using the model to analyze photos on the assembly line.

Which metrics should the company use to evaluate the model's performance? (Choose two.)

- A. Root mean square error (RMSE) and mean absolute percentage error (MAPE)
- **B. Accuracy and F1 score**
- C. Bilingual Evaluation Understudy (BLEU) score

- D. Perplexity
- E. Precision and recall

**Answer: B,E**

#### NEW QUESTION # 38

A company is planning to use Amazon SageMaker to make classification ratings that are based on images. The company has 6 GB of training data that is stored on an Amazon FSx for NetApp ONTAP system virtual machine (SVM). The SVM is in the same VPC as SageMaker.

An ML engineer must make the training data accessible for ML models that are in the SageMaker environment. Which solution will meet these requirements?

- A. Mount the FSx for ONTAP file system as a volume to the SageMaker Instance.
- B. Create an Amazon S3 bucket. Use Mountpoint for Amazon S3 to link the S3 bucket to the FSx for ONTAP file system.
- C. Create a direct connection from SageMaker Data Wrangler to the FSx for ONTAP file system.
- D. Create a catalog connection from SageMaker Data Wrangler to the FSx for ONTAP file system.

**Answer: A**

#### NEW QUESTION # 39

An IoT company uses Amazon SageMaker to train and test an XGBoost model for object detection. ML engineers need to monitor performance metrics when they train the model with variants in hyperparameters. The ML engineers also need to send Short Message Service (SMS) text messages after training is complete.

Which solution will meet these requirements?

- A. Use Amazon CloudWatch to monitor performance metrics. Use Amazon Simple Queue Service (Amazon SQS) for message delivery.
- B. Use Amazon CloudWatch to monitor performance metrics. Use Amazon Simple Notification Service (Amazon SNS) for message delivery.
- C. Use AWS CloudTrail to monitor performance metrics. Use Amazon Simple Queue Service (Amazon SQS) for message delivery.
- D. Use AWS CloudTrail to monitor performance metrics. Use Amazon Simple Notification Service (Amazon SNS) for message delivery.

**Answer: B**

#### NEW QUESTION # 40

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