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### Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>ML Solution Monitoring, Maintenance, and Security: 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>
Topic 2	<ul style="list-style-type: none"><li>Data Preparation for Machine Learning (ML): 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>Deployment and Orchestration of ML Workflows: 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>CD pipelines. 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>ML Model Development: 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>

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### Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q67-Q72):

#### NEW QUESTION # 67

A company is using Amazon EMR. The company has a large dataset in Amazon S3 that needs to be ingested into Amazon SageMaker Feature Store. The dataset contains historical data and real-time streaming data.

The company must ensure that the Feature Store online store is updated with the most recent data as soon as the data becomes available. The company also must maintain a complete Feature Store offline store for batch processing.

Which solution will meet these requirements?

- A. Use the Feature Store Spark connector to ingest the data as Spark DataFrames with only the online store enabled.
- B. Use the Feature Store Spark connector to ingest the data as Spark DataFrames with the online store and offline store enabled.**
- C. Use the PutRecord API in Feature Store Runtime to ingest all the data into the online store.
- D. Use the PutRecord API in Feature Store Runtime to ingest all the data into the offline store.

#### Answer: B

Explanation:

The SageMaker Feature Store Spark connector allows ingestion of large-scale data from Amazon EMR into Feature Store as Spark DataFrames. Enabling both the online store ensures real-time updates for the latest data, while the offline store maintains the full historical dataset for batch analytics. This setup meets both low-latency and historical processing requirements.

#### NEW QUESTION # 68

A medical company ingests streams of data from devices that monitor patients' vital signs. The company uses Amazon SageMaker and plans to prepare ML models to predict adverse events for patients. The dataset is large with thousands of features.

An ML engineer needs to run several hundred training iterations with different sets of features, different algorithms, and many potential parameters. The ML engineer must implement a solution to log the characteristics and results of each training iteration. Which solution will meet these requirements with the LEAST implementation effort?

- A. Write the characteristics of each iteration to logs in Amazon S3. Use AWS Glue and Amazon Athena to search the logs.
- B. Use Amazon CloudWatch to create custom metrics for the characteristics of each iteration.
- C. Use the SageMaker Model Registry to track the characteristics and results of each iteration.

- D. Use SageMaker Experiments to track the characteristics and results of each iteration.

**Answer: D**

Explanation:

SageMaker Experiments is specifically designed to track and organize ML experiments, including characteristics such as features, algorithms, parameters, and results. It provides experiment tracking with minimal implementation effort, making it the best fit for logging and comparing multiple training iterations.

**NEW QUESTION # 69**

Hotspot Question

A company needs to train an ML model that will use historical transaction data to predict customer behavior.

Select the correct AWS service from the following list to perform each task on the data. Each service should be selected one time or not at all. (Select three.)

- Amazon Athena
- AWS Glue
- Amazon Kinesis Data Streams
- Amazon S3

**Answer:**

Explanation:

**NEW QUESTION # 70**

A company wants to predict the success of advertising campaigns by considering the color scheme of each advertisement. An ML engineer is preparing data for a neural network model.

The dataset includes color information as categorical data.

Which technique for feature engineering should the ML engineer use for the model?

- A. One-hot encode the color categories to transform the color scheme feature into a binary matrix.
- B. Apply label encoding to the color categories. Automatically assign each color a unique integer.
- C. Implement padding to ensure that all color feature vectors have the same length.
- D. Perform dimensionality reduction on the color categories.

**Answer: A**

**NEW QUESTION # 71**

A company uses Amazon Athena to query a dataset in Amazon S3. The dataset has a target variable that the company wants to predict.

The company needs to use the dataset in a solution to determine if a model can predict the target variable.

Which solution will provide this information with the LEAST development effort?

- A. Create a new model by using Amazon SageMaker Autopilot. Report the model's achieved performance.
- B. Select a model from Amazon Bedrock. Tune the model with the data. Report the model's achieved performance.
- C. Configure Amazon Macie to analyze the dataset and to create a model. Report the model's achieved performance.
- D. Implement custom scripts to perform data pre-processing, multiple linear regression, and performance evaluation. Run the scripts on Amazon EC2 instances.

**Answer: A**

Explanation:

Amazon SageMaker Autopilot automates the process of building, training, and tuning machine learning models. It provides insights into whether the target variable can be effectively predicted by evaluating the model's performance metrics. This solution requires minimal development effort as SageMaker Autopilot handles data preprocessing, algorithm selection, and hyperparameter optimization automatically, making it the most efficient choice for this scenario.

## NEW QUESTION # 72

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