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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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.
Topic 2	<ul style="list-style-type: none"> 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.
Topic 3	<ul style="list-style-type: none"> 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 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.

Topic 4	<ul style="list-style-type: none"> • 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.
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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q148-Q153):

NEW QUESTION # 148

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.

Before the ML engineer trains the model, the ML engineer must resolve the issue of the imbalanced data.

Which solution will meet this requirement with the LEAST operational effort?

- A. Use AWS Glue DataBrew built-in features to oversample the minority class.
- B. Use Amazon Athena to identify patterns that contribute to the imbalance. Adjust the dataset accordingly.
- **C. Use the Amazon SageMaker Data Wrangler balance data operation to oversample the minority class.**
- D. Use Amazon SageMaker Studio Classic built-in algorithms to process the imbalanced dataset.

Answer: C

Explanation:

Problem Description:

* The training dataset has a class imbalance, meaning one class (e.g., fraudulent transactions) has fewer samples compared to the majority class (e.g., non-fraudulent transactions). This imbalance affects the model's ability to learn patterns from the minority class.

Why SageMaker Data Wrangler?

* SageMaker Data Wrangler provides a built-in operation called "Balance Data," which includes oversampling and undersampling techniques to address class imbalances.

* Oversampling the minority class replicates samples of the minority class, ensuring the algorithm receives balanced inputs without significant additional operational overhead.

Steps to Implement:

* Import the dataset into SageMaker Data Wrangler.

* Apply the "Balance Data" operation and configure it to oversample the minority class.

* Export the balanced dataset for training.

Advantages:

* **Ease of Use:** Minimal configuration is required.

* **Integrated Workflow:** Works seamlessly with the SageMaker ecosystem for preprocessing and model training.

* **Time Efficiency:** Reduces manual effort compared to external tools or scripts.

NEW QUESTION # 149

A company has deployed an XGBoost prediction model in production to predict if a customer is likely to cancel a subscription. The

company uses Amazon SageMaker Model Monitor to detect deviations in the F1 score. During a baseline analysis of model quality, the company recorded a threshold for the F1 score. After several months of no change, the model's F1 score decreases significantly. What could be the reason for the reduced F1 score?

- A. Incorrect ground truth labels were provided to Model Monitor during the calculation of the baseline.
- B. The original baseline data had a data quality issue of missing values.
- C. The model was not sufficiently complex to capture all the patterns in the original baseline data.
- **D. Concept drift occurred in the underlying customer data that was used for predictions.**

Answer: D

NEW QUESTION # 150

An ML engineer is developing a fraud detection model by using the Amazon SageMaker XGBoost algorithm. The model classifies transactions as either fraudulent or legitimate. During testing, the model excels at identifying fraud in the training dataset. However, the model is inefficient at identifying fraud in new and unseen transactions. What should the ML engineer do to improve the fraud detection for new transactions?

- **A. Decrease the value of the max_depth hyperparameter.**
- B. Increase the learning rate.
- C. Remove some irrelevant features from the training dataset.
- D. Increase the value of the max_depth hyperparameter.

Answer: A

Explanation:

A high max_depth value in XGBoost can lead to overfitting, where the model learns the training dataset too well but fails to generalize to new and unseen data. By decreasing the max_depth, the model becomes less complex, reducing overfitting and improving its ability to detect fraud in new transactions. This adjustment helps the model focus on general patterns rather than memorizing specific details in the training data.

NEW QUESTION # 151

A company is building a near real-time data analytics application to detect anomalies and failures for industrial equipment. The company has thousands of IoT sensors that send data every 60 seconds. When new versions of the application are released, the company wants to ensure that application code bugs do not prevent the application from running. Which solution will meet these requirements?

- A. Use Amazon Data Firehose to deliver data to Amazon EC2 instances across two Availability Zones for the data analytics application.
- B. Use Amazon Managed Service for Apache Flink with manual rollback when an error occurs to build the data analytics application.
- C. Use Amazon Data Firehose to deliver real-time streaming data programmatically for the data analytics application. Pause the stream when a new version of the application is released and resume the stream after the application is deployed.
- **D. Use Amazon Managed Service for Apache Flink with the system rollback capability enabled to build the data analytics application.**

Answer: D

Explanation:

For near real-time anomaly detection on streaming IoT data, AWS recommends Amazon Managed Service for Apache Flink. Flink is designed for stateful, low-latency stream processing and is well suited for time-series sensor analytics. A key requirement is application resilience during deployments. Managed Flink supports system rollback, which automatically reverts to the last stable application version if a new deployment fails. This capability ensures uninterrupted processing even if application bugs are introduced, meeting the company's reliability requirement. Manual rollback (Option B) introduces operational risk and delays. Amazon Data Firehose (Options C and D) is a delivery service and does not support complex anomaly detection logic or application version rollback. Therefore, using Managed Flink with system rollback enabled is the correct solution.

NEW QUESTION # 152

A company has multiple models that are hosted on Amazon SageMaker AI. The models need to be re-trained. The requirements for each model are different, so the company needs to choose different deployment strategies to transfer all requests to a new model.

Select the correct strategy from the following list for each requirement. Select each strategy one time. (Select THREE.)

- . Canary traffic shifting
- . Linear traffic shifting guardrail
- . All at once traffic shifting

Answer:

Explanation:

Explanation:

1## Simultaneous calls to the endpoint must reach models with the same configuration Correct strategy: All at once traffic shifting

Why:

"All at once" replaces the old model with the new model immediately. After the switch, all concurrent requests hit only the new model configuration, guaranteeing configuration consistency across simultaneous calls.

2## The new model must receive only a fraction of the requests for validation before receiving all the traffic Correct strategy: Canary traffic shifting Why:

Canary deployments route a small percentage of traffic (for example, 5% or 10%) to the new model first. This allows validation of correctness and performance before shifting 100% of traffic.

3## Traffic to the new model must increase gradually to ensure that pipelines that rely on the endpoint do not fail because of changes in latency Correct strategy: Linear traffic shifting guardrail Why:

Linear traffic shifting gradually increases traffic in equal increments over time and includes guardrails (such as CloudWatch alarms) to automatically roll back if latency or errors exceed thresholds.

NEW QUESTION # 153

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