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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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">• 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 4	<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.

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q12-Q17):

NEW QUESTION # 12

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.

The training dataset includes categorical data and numerical data. The ML engineer must prepare the training dataset to maximize the accuracy of the model.

Which action will meet this requirement with the LEAST operational overhead?

- A. Use Amazon SageMaker Data Wrangler to transform the categorical data into numerical data.
- B. Use AWS Glue to transform the numerical data into categorical data.
- C. Use AWS Glue to transform the categorical data into numerical data.
- D. Use Amazon SageMaker Data Wrangler to transform the numerical data into categorical data.

Answer: A

Explanation:

Preparing a training dataset that includes both categorical and numerical data is essential for maximizing the accuracy of a machine learning model. Transforming categorical data into numerical format is a critical step, as most ML algorithms require numerical input.

Why Transform Categorical Data into Numerical Data?

- * Model Compatibility: Many ML algorithms cannot process categorical data directly and require numerical representations.
- * Improved Performance: Proper encoding of categorical variables can enhance model accuracy and convergence speed.

Why Use Amazon SageMaker Data Wrangler?

Amazon SageMaker Data Wrangler offers a visual interface with over 300 built-in data transformations, including tools for encoding categorical variables.

Implementation Steps:

* Import Data:

* Load the dataset into SageMaker Data Wrangler from sources like Amazon S3 or on-premises databases.

* Identify Categorical Features:

* Use Data Wrangler's data type inference to detect categorical columns.

* Apply Categorical Encoding:

* Choose appropriate encoding techniques (e.g., one-hot encoding or ordinal encoding) from Data Wrangler's transformation options.

* Apply the selected transformation to convert categorical features into numerical format.

* Validate Transformations:

* Review the transformed dataset to ensure accuracy and completeness.

Advantages of Using SageMaker Data Wrangler:

* Ease of Use: Provides a user-friendly interface for data transformation without extensive coding.

* Operational Efficiency: Integrates data preparation steps, reducing the need for multiple tools and minimizing operational overhead.

* Flexibility: Supports various data sources and transformation techniques, accommodating diverse datasets.

By utilizing SageMaker Data Wrangler to transform categorical data into numerical format, the ML engineer can efficiently prepare the dataset, thereby enhancing the model's accuracy with minimal operational overhead.

References:

* Transform Data - Amazon SageMaker

* Prepare ML Data with Amazon SageMaker Data Wrangler

NEW QUESTION # 13

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

Answer: B

Explanation:

One-hot encoding is the appropriate technique for transforming categorical data, such as color information, into a format suitable for input to a neural network. This technique creates a binary vector representation where each unique category (color) is represented as a separate binary column, ensuring that the model does not infer ordinal relationships between categories. This approach preserves the categorical nature of the data and avoids introducing unintended biases.

NEW QUESTION # 14

A company wants to use Amazon SageMaker AI to host an ML model that runs on CPU for real-time predictions. The model has intermittent traffic during business hours and periods of no traffic after business hours.

Which hosting option will serve inference requests in the MOST cost-effective manner?

- A. Deploy the model to a real-time endpoint with scheduled auto scaling.
- B. Deploy the model to a real-time endpoint and activate it only during business hours using AWS Lambda.
- C. Deploy the model to an asynchronous inference endpoint with auto scaling to zero.
- **D. Deploy the model to a SageMaker AI Serverless Inference endpoint with provisioned concurrency during business hours.**

Answer: D

Explanation:

AWS recommends SageMaker Serverless Inference for workloads with intermittent or unpredictable traffic.

Serverless inference automatically scales compute resources to zero when idle, eliminating costs during periods with no traffic.

For business-hour traffic spikes, provisioned concurrency ensures low-latency responses while still avoiding the cost of continuously running instances. This model is especially cost-effective for CPU-based inference workloads.

Real-time endpoints incur costs even when idle, and asynchronous inference is designed for long-running jobs rather than low-latency predictions.

AWS documentation explicitly states that Serverless Inference is the most cost-effective option for intermittent real-time workloads. Therefore, Option B is the correct choice.

NEW QUESTION # 15

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 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.
- 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 data to Amazon EC2 instances across two Availability Zones for the data analytics application.
- **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 # 16

An ML engineer is developing a classification model. The ML engineer needs to use custom libraries in processing jobs, training jobs, and pipelines in Amazon SageMaker. Which solution will provide this functionality with the LEAST implementation effort?

- A. Build a custom Docker container that includes the required libraries. Host the container in Amazon Elastic Container Registry (Amazon ECR). Use the ECR image in the SageMaker jobs and pipelines.
- B. Create a SageMaker notebook instance to host the jobs. Create an AWS Lambda function to install the libraries on the notebook instance when the notebook instance starts. Configure the SageMaker jobs and pipelines to run on the notebook instance.
- C. Run code for the libraries externally on Amazon EC2 instances. Store the results in Amazon S3. Import the results into the SageMaker jobs and pipelines.
- D. Manually install the libraries in the SageMaker containers.

Answer: A

Explanation:

Building a custom Docker container with the required libraries and hosting it in Amazon ECR allows SageMaker jobs, training, and pipelines to consistently use the same environment. This approach minimizes manual setup, ensures portability, and provides the least ongoing implementation effort compared to repeatedly installing or managing libraries separately.

NEW QUESTION # 17

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