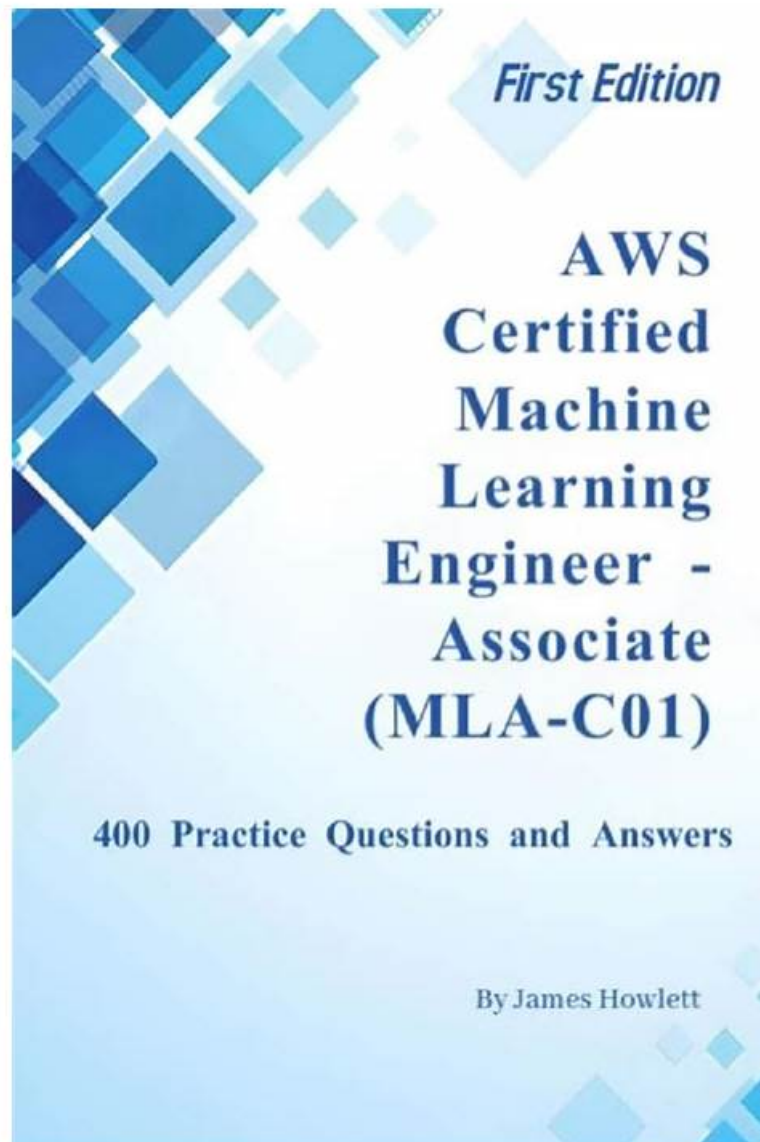


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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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 4	• 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.

Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q43-Q48):

NEW QUESTION # 43

A company has a large collection of chat recordings from customer interactions after a product release. An ML engineer needs to create an ML model to analyze the chat data. The ML engineer needs to determine the success of the product by reviewing customer sentiments about the product.

Which action should the ML engineer take to complete the evaluation in the LEAST amount of time?

- A. Use Amazon Rekognition to analyze sentiments of the chat conversations.
- B. Train a Naive Bayes classifier to analyze sentiments of the chat conversations.
- C. Use random forests to classify sentiments of the chat conversations.
- D. Use Amazon Comprehend to analyze sentiments of the chat conversations.

Answer: D

Explanation:

Amazon Comprehend is a fully managed natural language processing (NLP) service that includes a built-in sentiment analysis feature. It can quickly and efficiently analyze text data to determine whether the sentiment is positive, negative, neutral, or mixed. Using Amazon Comprehend requires minimal setup and provides accurate results without the need to train and deploy custom models, making it the fastest and most efficient solution for this task.

NEW QUESTION # 44

An advertising company uses AWS Lake Formation to manage a data lake. The data lake contains structured data and unstructured data. The company's ML engineers are assigned to specific advertisement campaigns.

The ML engineers must interact with the data through Amazon Athena and by browsing the data directly in an Amazon S3 bucket.

The ML engineers must have access to only the resources that are specific to their assigned advertisement campaigns.

Which solution will meet these requirements in the MOST operationally efficient way?

- A. Configure S3 bucket policies to restrict access to the S3 bucket based on the ML engineers' campaigns.
- B. Store users and campaign information in an Amazon DynamoDB table. Configure DynamoDB Streams to invoke an AWS Lambda function to update S3 bucket policies.
- C. Configure IAM policies on an AWS Glue Data Catalog to restrict access to Athena based on the ML engineers' campaigns.
- **D. Use Lake Formation to authorize AWS Glue to access the S3 bucket. Configure Lake Formation tags to map ML engineers to their campaigns.**

Answer: D

Explanation:

AWS Lake Formation provides fine-grained access control and simplifies data governance for data lakes. By configuring Lake Formation tags to map ML engineers to their specific campaigns, you can restrict access to both structured and unstructured data in the data lake. This method is operationally efficient, as it centralizes access control management within Lake Formation and ensures consistency across Amazon Athena and S3 bucket access without requiring manual updates to policies or DynamoDB-based custom logic.

NEW QUESTION # 45

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

Answer: C

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 # 46

An ML engineer trained an ML model on Amazon SageMaker to detect automobile accidents from closed-circuit TV footage. The ML engineer used SageMaker Data Wrangler to create a training dataset of images of accidents and non-accidents.

The model performed well during training and validation. However, the model is underperforming in production because of variations in the quality of the images from various cameras.

Which solution will improve the model's accuracy in the LEAST amount of time?

- A. Recreate the training dataset by using the Data Wrangler corrupt image transform. Specify the impulse noise option.
- B. Recreate the training dataset by using the Data Wrangler resize image transform. Crop all images to the same size.
- C. Collect more images from all the cameras. Use Data Wrangler to prepare a new training dataset.
- D. Recreate the training dataset by using the Data Wrangler enhance image contrast transform. Specify the Gamma contrast option.

Answer: A

Explanation:

The model is underperforming in production due to variations in image quality from different cameras. Using the corrupt image transform with the impulse noise option in SageMaker Data Wrangler simulates real-world noise and variations in the training dataset. This approach helps the model become more robust to inconsistencies in image quality, improving its accuracy in production without the need to collect and process new data, thereby saving time.

NEW QUESTION # 47

A credit card company has a fraud detection model in production on an Amazon SageMaker endpoint. The company develops a new version of the model. The company needs to assess the new model's performance by using live data and without affecting production end users.

Which solution will meet these requirements?

- A. Set up blue/green deployments with all-at-once traffic shifting.
- B. Set up SageMaker Debugger and create a custom rule.
- C. Set up blue/green deployments with canary traffic shifting.
- D. Set up shadow testing with a shadow variant of the new model.

Answer: D

Explanation:

Shadow testing allows you to send a copy of live production traffic to a shadow variant of the new model while keeping the existing production model unaffected. This enables you to evaluate the performance of the new model in real-time with live data without impacting end users. SageMaker endpoints support this setup by allowing traffic mirroring to the shadow variant, making it an ideal solution for assessing the new model's performance.

NEW QUESTION # 48

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