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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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.

Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q20-Q25):

NEW QUESTION # 20

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.

After the data is aggregated, the ML engineer must implement a solution to automatically detect anomalies in the data and to visualize the result.

Which solution will meet these requirements?

- A. Use AWS Batch to automatically detect the anomalies. Use Amazon QuickSight to visualize the result.
- B. Use Amazon SageMaker Data Wrangler to automatically detect the anomalies and to visualize the result.**
- C. Use Amazon Redshift Spectrum to automatically detect the anomalies. Use Amazon QuickSight to visualize the result.
- D. Use Amazon Athena to automatically detect the anomalies and to visualize the result.

Answer: B

Explanation:

Amazon SageMaker Data Wrangler is a comprehensive tool that streamlines the process of data preparation and offers built-in capabilities for anomaly detection and visualization.

Key Features of SageMaker Data Wrangler:

- * Data Importation: Connects seamlessly to various data sources, including Amazon S3 and on-premises databases, facilitating the aggregation of transaction logs, customer profiles, and MySQL tables.
- * Anomaly Detection: Provides built-in analyses to detect anomalies in time series data, enabling the identification of outliers that may indicate fraudulent activities.
- * Visualization: Offers a suite of visualization tools, such as histograms and scatter plots, to help understand data distributions and relationships, which are crucial for feature engineering and model development.

Implementation Steps:

* Data Aggregation:

- * Import data from Amazon S3 and on-premises MySQL databases into SageMaker Data Wrangler.
- * Utilize Data Wrangler's data flow interface to combine and preprocess datasets, ensuring a unified dataset for analysis.

* Anomaly Detection:

- * Apply the anomaly detection analysis feature to identify outliers in the dataset.

- * Configure parameters such as the anomaly threshold to fine-tune the detection sensitivity.

* Visualization:

- * Use built-in visualization tools to create charts and graphs that depict data distributions and highlight anomalies.

- * Interpret these visualizations to gain insights into potential fraud patterns and feature interdependencies.

Advantages of Using SageMaker Data Wrangler:

- * Integrated Workflow: Combines data preparation, anomaly detection, and visualization within a single interface, streamlining the ML development process.

- * Operational Efficiency: Reduces the need for multiple tools and complex integrations, thereby minimizing operational overhead.

- * Scalability: Handles large datasets efficiently, making it suitable for extensive transaction logs and customer profiles.

By leveraging SageMaker Data Wrangler, the ML engineer can effectively detect anomalies and visualize results, facilitating the

development of a robust fraud detection model.

Analyze and Visualize - Amazon SageMaker

Transform Data - Amazon SageMaker

NEW QUESTION # 21

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

Answer: A

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 # 22

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

Answer: A

NEW QUESTION # 23

A company stores training data as a .csv file in an Amazon S3 bucket. The company must encrypt the data and must control which applications have access to the encryption key.

Which solution will meet these requirements?

- A. Create a new AWS Key Management Service (AWS KMS) key and use the AWS Encryption CLI with the KMS key to encrypt the file.
- B. Create a new IAM role with permissions for kms:GenerateDataKey and use the role to encrypt the file.
- C. Create a new API key by using Amazon API Gateway and use it to encrypt the file.
- D. Create a new SSH access key and use the AWS Encryption CLI to encrypt the file.

Answer: A

Explanation:

AWS Key Management Service (AWS KMS) is the recommended service for encryption and key access control. By creating a customer-managed KMS key, the company can define granular IAM policies that control which applications and roles can use the key.

The AWS Encryption CLI integrates directly with KMS and enables client-side encryption of files before storing them in Amazon

S3. This approach ensures data is encrypted at rest and that only authorized principals can decrypt it.

SSH keys and API keys are not designed for data encryption. IAM roles alone do not create or manage encryption keys-they only grant permissions.

AWS documentation explicitly states that KMS customer-managed keys provide centralized key management, auditing, and access control.

Therefore, Option D is the correct and AWS-aligned solution.

NEW QUESTION # 24

A company has AWS Glue data processing jobs that are orchestrated by an AWS Glue workflow.

The AWS Glue jobs can run on a schedule or can be launched manually.

The company is developing pipelines in Amazon SageMaker Pipelines for ML model development. The pipelines will use the output of the AWS Glue jobs during the data processing phase of model development. An ML engineer needs to implement a solution that integrates the AWS Glue jobs with the pipelines.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Use Amazon EventBridge to invoke the pipelines and the AWS Glue jobs in the desired order.
- B. Use processing steps in SageMaker Pipelines. Configure inputs that point to the Amazon Resource Names (ARNs) of the AWS Glue jobs.
- **C. Use Callback steps in SageMaker Pipelines to start the AWS Glue workflow and to stop the pipelines until the AWS Glue jobs finish running.**
- D. Use AWS Step Functions for orchestration of the pipelines and the AWS Glue jobs.

Answer: C

NEW QUESTION # 25

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