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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"> • 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	<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 4	<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.

Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q21-Q26):

NEW QUESTION # 21

A company wants to reduce the cost of its containerized ML applications. The applications use ML models that run on Amazon EC2 instances, AWS Lambda functions, and an Amazon Elastic Container Service (Amazon ECS) cluster. The EC2 workloads and ECS workloads use Amazon Elastic Block Store (Amazon EBS) volumes to save predictions and artifacts.

An ML engineer must identify resources that are being used inefficiently. The ML engineer also must generate recommendations to reduce the cost of these resources.

Which solution will meet these requirements with the LEAST development effort?

- A. Create code to evaluate each instance's memory and compute usage.
- B. Add cost allocation tags to the resources. Activate the tags in AWS Billing and Cost Management.

- C. Run AWS Compute Optimizer.
- D. Check AWS CloudTrail event history for the creation of the resources.

Answer: C

NEW QUESTION # 22

A company is building a web-based AI application by using Amazon SageMaker. The application will provide the following capabilities and features: ML experimentation, training, a central model registry, model deployment, and model monitoring. The application must ensure secure and isolated use of training data during the ML lifecycle. The training data is stored in Amazon S3.

The company needs to run an on-demand workflow to monitor bias drift for models that are deployed to real-time endpoints from the application.

Which action will meet this requirement?

- A. Invoke an AWS Lambda function to pull the sagemaker-model-monitor-analyzer built-in SageMaker image.
- B. Use AWS Glue Data Quality to monitor bias.
- C. Use SageMaker notebooks to compare the bias.
- D. Configure the application to invoke an AWS Lambda function that runs a SageMaker Clarify job.

Answer: D

Explanation:

Monitoring bias drift in deployed machine learning models is crucial to ensure fairness and accuracy over time. Amazon SageMaker Clarify provides tools to detect bias in ML models, both during training and after deployment. To monitor bias drift for models deployed to real-time endpoints, an effective approach involves orchestrating SageMaker Clarify jobs using AWS Lambda functions.

Implementation Steps:

* Set Up Data Capture:

* Enable data capture on the SageMaker endpoint to record input data and model predictions. This captured data serves as the basis for bias analysis.

* Develop a Lambda Function:

* Create an AWS Lambda function configured to initiate a SageMaker Clarify job. This function will process the captured data to assess bias metrics.

* Schedule or Trigger the Lambda Function:

* Configure the Lambda function to run on-demand or at scheduled intervals using Amazon CloudWatch Events or EventBridge.

This setup allows for regular bias monitoring as per the application's requirements.

* Analyze and Respond to Results:

* After each Clarify job completes, review the generated bias reports. If bias drift is detected, take appropriate actions, such as retraining the model or adjusting data preprocessing steps.

Advantages of This Approach:

* Automation: Utilizing AWS Lambda for orchestrating Clarify jobs enables automated and scalable bias monitoring without manual intervention.

* Cost-Effectiveness: AWS Lambda's serverless nature ensures that you only pay for the compute time consumed during the execution of the function, optimizing resource usage.

* Flexibility: The solution can be tailored to specific monitoring needs, allowing for adjustments in monitoring frequency and analysis parameters.

By implementing this solution, the company can effectively monitor bias drift in real-time, ensuring that the AI application maintains fairness and accuracy throughout its lifecycle.

References:

Bias drift for models in production - Amazon SageMaker

Schedule Bias Drift Monitoring Jobs - Amazon SageMaker

NEW QUESTION # 23

A company is using Amazon SageMaker and millions of files to train an ML model. Each file is several megabytes in size. The files are stored in an Amazon S3 bucket. The company needs to improve training performance.

Which solution will meet these requirements in the LEAST amount of time?

- A. Create an Amazon ElastiCache (Redis OSS) cluster. Link the Redis OSS cluster to the existing S3 bucket. Stream the data from the Redis OSS cluster directly to the training job.

- B. Create an Amazon FSx for Lustre file system. Link the file system to the existing S3 bucket. Adjust the training job to read from the file system.
- C. Transfer the data to a new S3 bucket that provides S3 Express One Zone storage. Adjust the training job to use the new S3 bucket.
- D. Create an Amazon Elastic File System (Amazon EFS) file system. Transfer the existing data to the file system. Adjust the training job to read from the file system.

Answer: B

NEW QUESTION # 24

An ML engineer is training a simple neural network model. The model's performance improves initially and then degrades after a certain number of epochs.

Which solutions will mitigate this problem? (Select TWO.)

- A. Increase dropout in the layers.
- B. Increase the number of neurons.
- C. Investigate and reduce the sources of model bias.
- D. Increase the number of layers.
- E. Enable early stopping on the model.

Answer: A,E

Explanation:

The described behavior indicates overfitting, where the model starts to memorize training data instead of generalizing.

Early stopping halts training when validation performance stops improving, preventing the model from overfitting further. AWS documentation recommends early stopping as a primary regularization technique.

Dropout randomly disables neurons during training, forcing the model to learn robust representations and reducing reliance on specific neurons. Increasing dropout is a well-established method for improving generalization.

Increasing layers or neurons increases model capacity and worsens overfitting. Model bias is unrelated to epoch-based degradation. Therefore, Options A and E are correct.

NEW QUESTION # 25

An ML engineer is setting up a continuous integration and continuous delivery (CI/CD) pipeline for an ML workflow in Amazon SageMaker AI. The pipeline needs to automate model re-training, testing, and deployment whenever new data is uploaded to an Amazon S3 bucket. New data files are approximately 10 GB in size. The ML engineer wants to track model versions for auditing. Which solution will meet these requirements?

- A. Create an AWS Lambda function to re-train and deploy the model. Use Amazon EventBridge to invoke the Lambda function. Reference the Lambda logs to track model versions.
- B. Use SageMaker AI notebook instances to manually re-train and deploy the model when needed. Reference AWS CloudTrail logs to track model versions.
- C. Use AWS CodePipeline, Amazon S3, and AWS CodeBuild to retrain and deploy the model automatically and to track model versions.
- D. Use SageMaker Pipelines with the SageMaker Model Registry to orchestrate model training and version tracking.

Answer: D

Explanation:

AWS provides Amazon SageMaker Pipelines as the native CI/CD solution for ML. Pipelines can automatically trigger retraining when new data arrives in Amazon S3, handle large datasets (such as 10 GB files), and orchestrate preprocessing, training, evaluation, and deployment steps.

For governance and auditing, Amazon SageMaker Model Registry integrates directly with Pipelines to manage model versions, approval status, and metadata such as training metrics. This combination eliminates the need for custom tracking logic and ensures traceability across the ML lifecycle.

Option A lacks native ML lineage and version governance. Option C is unsuitable for large data and complex workflows. Option D is manual and not scalable.

Therefore, using SageMaker Pipelines with the Model Registry is the correct and AWS-recommended solution.

NEW QUESTION # 26

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