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AWS Certified Machine Learning Engineer - Associate

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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">• 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 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">• 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.

Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q224-Q229):

NEW QUESTION # 224

A digital media entertainment company needs real-time video content moderation to ensure compliance during live streaming events. Which solution will meet these requirements with the LEAST operational overhead?

- A. Use Amazon Rekognition and a large language model (LLM) hosted on Amazon Bedrock to extract and analyze the metadata from the videos' image frames.
- B. Use Amazon SageMaker AI to extract and analyze the metadata from the videos' image frames.
- **C. Use Amazon Rekognition and AWS Lambda to extract and analyze the metadata from the videos' image frames.**
- D. Use Amazon Transcribe and Amazon Comprehend to extract and analyze the metadata from the videos' image frames.

Answer: C

Explanation:

For real-time video content moderation with minimal operational overhead, AWS documentation recommends using fully managed, purpose-built AI services. Amazon Rekognition provides real-time video analysis capabilities, including content moderation, unsafe content detection, and label recognition for live video streams.

By integrating Rekognition with AWS Lambda, the company can automatically process video frames, extract moderation metadata, and take immediate action (such as flagging or stopping a stream) without managing servers, models, or infrastructure. This serverless architecture scales automatically and minimizes operational complexity.

Option B introduces unnecessary complexity. While Amazon Bedrock LLMs are powerful, they are not required for image-based moderation tasks that Rekognition already handles natively.

Option C is incorrect because using Amazon SageMaker would require model training, endpoint management, and scaling, significantly increasing operational overhead.

Option D is incorrect because Amazon Transcribe and Amazon Comprehend are designed for audio and text analysis, not image or

video frame moderation.

Therefore, Amazon Rekognition with AWS Lambda is the most efficient, scalable, and low-maintenance solution for real-time video moderation during live streaming events.

NEW QUESTION # 225

A data scientist is working on optimizing a model during the training process by varying multiple parameters. The data scientist observes that, during multiple runs with identical parameters, the loss function converges to different, yet stable, values.

What should the data scientist do to improve the training process?

- A. Increase the learning rate. Keep the batch size the same.
- B. Do not change the learning rate. Increase the batch size.
- C. Decrease the learning rate. Reduce the batch size.
- D. Decrease the learning rate. Keep the batch size the same.

Answer: C

Explanation:

It is most likely that the loss function is very curvy and has multiple local minima where the training is getting stuck. Decreasing the batch size would help the data scientist stochastically get out of the local minima saddles. Decreasing the learning rate would prevent overshooting the global loss function minimum.

NEW QUESTION # 226

A company is building a conversational AI assistant on Amazon Bedrock. The company is using Retrieval Augmented Generation (RAG) to reference the company's internal knowledge base. The AI assistant uses the Anthropic Claude 4 foundation model (FM). The company needs a solution that uses a vector embedding model, a vector store, and a vector search algorithm.

Which solution will develop the AI assistant with the LEAST development effort?

- A. Use Amazon RDS for PostgreSQL with the pgvector extension.
- B. Use Amazon Aurora PostgreSQL with the pgvector extension.
- C. Use the AWS Glue Data Catalog metadata repository.
- D. Use Amazon Kendra Experience Builder.

Answer: D

Explanation:

Amazon Kendra Experience Builder provides a fully managed, low-code solution for building conversational search and question-answering applications. AWS documentation states that Kendra natively supports semantic search, vector embeddings, and vector-based retrieval, making it well suited for RAG-style applications with minimal development effort.

When integrated with Amazon Bedrock, Kendra can act as the retrieval layer, handling document ingestion, indexing, embedding generation, and relevance ranking automatically. This eliminates the need to manually manage embedding models, vector databases, and search logic.

Options B and C require custom schema design, vector indexing, query logic, and operational management of PostgreSQL instances. Although pgvector supports vector search, it significantly increases development and maintenance effort. Option D is unrelated to vector search and is used only for metadata cataloging.

AWS explicitly positions Amazon Kendra as the fastest way to build enterprise-grade conversational assistants that integrate with foundation models.

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

NEW QUESTION # 227

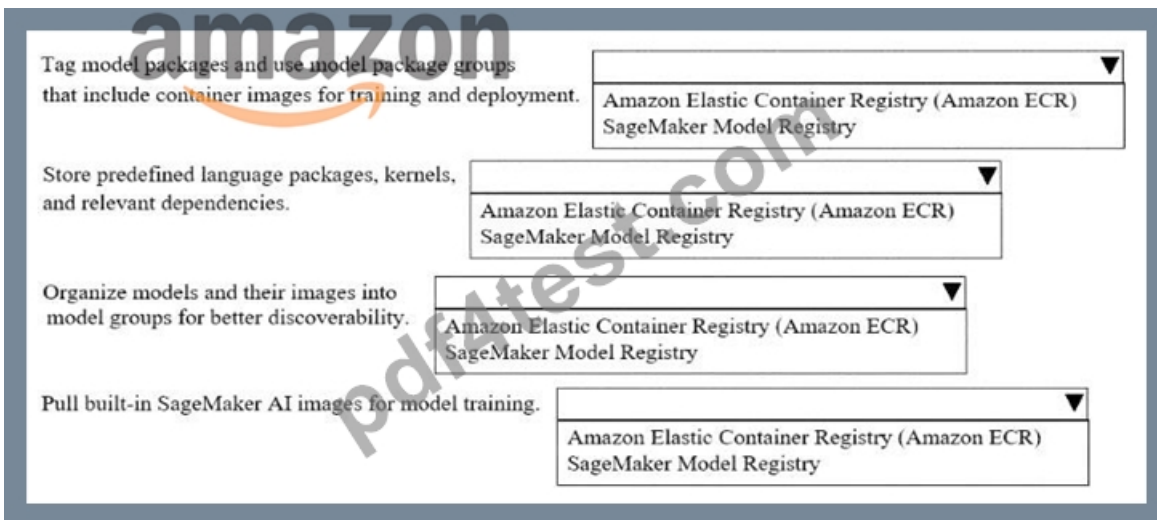
A company uses Amazon SageMaker AI to support ML workflows such as model training and deployment.

Select the correct registry from the following list to meet the requirements for each use case with the LEAST operational overhead.

Each registry should be selected one or more times. (Select FOUR.)

* Amazon Elastic Container Registry (Amazon ECR)

* SageMaker Model Registry



Answer:

Explanation:



Explanation:

- * Tag model packages and use model package groups that include container images for training and deployment # SageMaker Model Registry
 - * Store predefined language packages, kernels, and relevant dependencies # Amazon Elastic Container Registry (Amazon ECR)
 - * Organize models and their images into model groups for better discoverability # SageMaker Model Registry
 - * Pull built-in SageMaker AI images for model training # Amazon Elastic Container Registry (Amazon ECR)
- The correct hotspot mapping is based on the different purposes of SageMaker Model Registry and Amazon ECR. For model packages, model package groups, and model discoverability, the correct choice is SageMaker Model Registry. AWS documentation states that a model package group is a collection of versioned model packages, and each version can contain the model artifacts, metadata, and container information used for deployment. AWS also documents that registered models can be organized into groups to support governance, discoverability, and lifecycle management. That is why both "tag model packages and use model package groups" and "organize models and their images into model groups" map to SageMaker Model Registry. For storing software environments and pulling training images, the correct choice is Amazon ECR. AWS documentation says SageMaker uses Docker container images, and these images contain the software stack such as frameworks, language packages, kernels, and dependencies. AWS also states that SageMaker provides prebuilt Docker images for training and inference, and these are referenced through Amazon ECR image URIs. Therefore, both "store predefined language packages, kernels, and relevant dependencies" and "pull built-in SageMaker AI images for model training" map to Amazon ECR.

NEW QUESTION # 228

A company needs to deploy a custom-trained classification ML model on AWS. The model must make near real-time predictions with low latency and must handle variable request volumes.

Which solution will meet these requirements?

- **A. Deploy an Amazon SageMaker AI endpoint. Configure auto scaling for the endpoint.**
- B. Launch AWS Deep Learning AMIs (DLAMI) on two Amazon EC2 instances. Run the instances behind an Application Load Balancer.
- C. Create an Amazon SageMaker AI batch transform job to process inference requests in batches.
- D. Use Amazon API Gateway to receive prediction requests. Use an Amazon S3 bucket to host and serve the model.

Answer: A

Explanation:

For near real-time inference with low latency and variable traffic, AWS recommends deploying models to managed SageMaker endpoints. By enabling auto scaling, the endpoint automatically adjusts the number of instances based on request volume, ensuring consistent performance while optimizing cost.

Amazon SageMaker Endpoints abstracts infrastructure management, health checks, scaling, and model deployment. This provides lower operational overhead than managing EC2 instances manually.

Batch transform is for offline inference. API Gateway with S3 cannot serve ML models. EC2-based deployments require manual scaling and monitoring.

Therefore, a SageMaker endpoint with auto scaling is the correct solution.

NEW QUESTION # 229

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