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After successful competition of the Amazon MLA-C01 certification, the certified candidates can put their career on the right track and achieve their professional career objectives in a short time period. For the recognition of skills and knowledge, more career opportunities, professional development, and higher salary potential, the AWS Certified Machine Learning Engineer - Associate (MLA-C01) certification exam is the proven way to achieve these tasks quickly.

Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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	• 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.

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q45-Q50):

NEW QUESTION # 45
A music streaming company constantly streams song ratings from an application to an Amazon S3 bucket.
The company wants to use the ratings as an input for training and inference of an Amazon SageMaker AI model.
The company has an AWS Glue Data Catalog that is configured with the S3 bucket as the source. An ML engineer needs to implement a solution to create a repository for this data. The solution must ensure that the data stays synchronized during batch training and real-time inference.
Which solution will meet these requirements?

- A. Use the Generate Data Insights function in SageMaker Data Wrangler.
- B. Ingest data into SageMaker Feature Store from the S3 bucket. Apply tags and indexes.
- C. Use Amazon Athena. Create tables by using CREATE TABLE AS SELECT (CTAS) queries to group data.
- D. Use AWS Lake Formation. Apply tag-based control on the data.

Answer: B

Explanation:
Option A is correct because Amazon SageMaker Feature Store is the AWS service designed to act as a centralized repository for ML features that are used consistently across training and inference . AWS documentation states that SageMaker Feature Store simplifies how you create, store, share, and manage features for data exploration, model training, and model inference. This directly matches the requirement to create a repository for streamed song ratings that will be used in both batch training and real-time inference.
The most important requirement in the question is that the data must stay synchronized between batch training and real-time inference . AWS documents explain that Feature Store provides both an offline store and an online store . The offline store is used for historical data, model training, and batch inference, while the online store is a low-latency, high-availability store intended for real-time lookup during inference. This dual-store design is exactly why Feature Store is used to maintain feature consistency across training and serving workflows. AWS Well-Architected guidance also explicitly says Feature Store provides online storage for real-time inference and offline storage for model training and batch inference.
The other options do not solve the full problem. Athena CTAS can organize query results but does not provide a synchronized feature repository for online and offline ML use. Lake Formation governs access to data lakes but is not a feature repository for training and inference consistency. Data Wrangler Generate Data Insights is for analysis and preparation, not synchronized feature serving. Therefore, the best AWS- documented answer is A .

NEW QUESTION # 46
An ML engineer is setting up an Amazon SageMaker AI pipeline for an ML model. The pipeline must automatically initiate a retraining job if any data drift is detected.
How should the ML engineer set up the pipeline to meet this requirement?

- A. Use Amazon Managed Service for Apache Flink to detect data drift. Use an AWS Lambda function to automate the retraining job.
- B. Use SageMaker Model Monitor to detect data drift. Use an AWS Lambda function to automate the retraining job.
- C. Use Amazon QuickSight anomaly detection to detect data drift. Use an AWS Step Functions workflow to automate the retraining job.
- D. Use an AWS Glue crawler and an AWS Glue ETL job to detect data drift. Use AWS Glue triggers to automate the retraining job.

Answer: B

Explanation:
AWS recommends Amazon SageMaker Model Monitor as the native service for detecting data drift, model drift, and bias drift in deployed ML models. Model Monitor continuously compares incoming inference data against a baseline dataset captured during training.
When Model Monitor detects drift beyond configured thresholds, it can emit Amazon CloudWatch events.

These events can trigger an AWS Lambda function, which is a common AWS-documented pattern for orchestrating automated workflows such as model retraining.
This Lambda function can then initiate a SageMaker Pipeline execution, starting a retraining job with updated data. This architecture aligns with AWS best practices for building automated, event-driven ML pipelines.
Option A is incorrect because AWS Glue is designed for data cataloging and ETL, not for ML-specific drift detection. Option B is unnecessary and overly complex for this use case. Option D is incorrect because Amazon QuickSight anomaly detection is intended for business intelligence analytics, not ML model monitoring.
AWS documentation explicitly positions SageMaker Model Monitor + Lambda automation as the recommended approach for continuous ML monitoring and retraining.
Therefore, Option C is the correct and AWS-verified answer.

NEW QUESTION # 47
A company has several teams that have developed separate prediction models on their own laptops. The teams developed the models by using Python with scikit-learn and TensorFlow frameworks.
The company must rebuild the models and must integrate the models into an ML infrastructure that the company manages by using Amazon SageMaker. The company also must incorporate the models into a model registry.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Import the Python-based models into SageMaker. Rebuild the scikit-learn and TensorFlow models in SageMaker. Register all the models in the SageMaker Model Registry.
- B. Import the models into the SageMaker Model Registry. Use SageMaker to run the imported models.
- C. Export the models from the laptops to an Amazon S3 bucket. Use an Amazon API Gateway REST API and AWS Lambda functions with SageMaker endpoints to access the models. Register the models in the SageMaker Model Registry.
- D. Use code from the laptops to create containers for the models. Use the bring your own container (BYOC) functionality of SageMaker to import and use the models. Register the models in the SageMaker Model Registry.

Answer: A

Explanation:
The least operational overhead comes from directly importing the scikit-learn and TensorFlow models into SageMaker, rebuilding them using the respective prebuilt SageMaker frameworks, and then registering them in the SageMaker Model Registry. This leverages managed framework containers provided by SageMaker, avoids custom container management, and integrates seamlessly with the registry.

NEW QUESTION # 48
A company wants to improve the sustainability of its ML operations.
Which actions will reduce the energy usage and computational resources that are associated with the company
' s training jobs? (Choose two.)

- A. Use Amazon SageMaker Debugger to stop training jobs when non-converging conditions are detected.
- B. Use PyTorch or TensorFlow with the distributed training option.
- C. Use Amazon SageMaker Ground Truth for data labeling.
- D. Deploy models by using AWS Lambda functions.
- E. Use AWS Trainium instances for training.

Answer: A,E

Explanation:
SageMaker Debugger can identify when a training job is not converging or is stuck in a non-productive state.
By stopping these jobs early, unnecessary energy and computational resources are conserved, improving sustainability.
AWS Trainium instances are purpose-built for ML training and are optimized for energy efficiency and cost- effectiveness. They use less energy per training task compared to general-purpose instances, making them a sustainable choice.

NEW QUESTION # 49
A company is planning to use Amazon Redshift ML in its primary AWS account. The source data is in an Amazon S3 bucket in a secondary account.
An ML engineer needs to set up an ML pipeline in the primary account to access the S3 bucket in the secondary account. The

solution must not require public IPv4 addresses.
Which solution will meet these requirements?

- A. Provision a Redshift cluster and Amazon SageMaker Studio in a VPC in the primary account.
  Create an AWS Site-to-Site VPN connection with two encrypted IPsec tunnels between the accounts. Set up interface VPC endpoints for Amazon S3.
- B. Provision a Redshift cluster and Amazon SageMaker Studio in a VPC with no public access enabled in the primary account. Create a VPC peering connection between the accounts. Update the VPC route tables to remove the route to 0.0.0.0/0.
- C. Provision a Redshift cluster and Amazon SageMaker Studio in a VPC in the primary account.Create an S3 gateway endpoint. Update the S3 bucket policy to allow IAM principals from the primary account. Set up interface VPC endpoints for SageMaker and Amazon Redshift.
- D. Provision a Redshift cluster and Amazon SageMaker Studio in a VPC with no public access enabled in the primary account. Create an AWS Direct Connect connection and a transit gateway.
  Associate the VPCs from both accounts with the transit gateway. Update the VPC route tables to remove the route to 0.0.0.0/0.

Answer: C

NEW QUESTION # 50
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