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Amazon MLA-C01

AWS Certified Machine Learning Engineer - Associate

Questions & Answers PDF

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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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.

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q140-Q145):

NEW QUESTION # 140

A company stores time-series data about user clicks in an Amazon S3 bucket. The raw data consists of millions of rows of user activity every day. ML engineers access the data to develop their ML models.

The ML engineers need to generate daily reports and analyze click trends over the past 3 days by using Amazon Athena. The company must retain the data for 30 days before archiving the data.

Which solution will provide the HIGHEST performance for data retrieval?

- A. Put each day's time-series data into its own S3 bucket. Use S3 Lifecycle policies to archive S3 buckets that hold data that is older than 30 days to S3 Glacier Flexible Retrieval.
- B. Keep all the time-series data without partitioning in the S3 bucket. Manually move data that is older than 30 days to separate S3 buckets.
- C. Organize the time-series data into partitions by date prefix in the S3 bucket. Apply S3 Lifecycle policies to archive partitions that are older than 30 days to S3 Glacier Flexible Retrieval.**
- D. Create AWS Lambda functions to copy the time-series data into separate S3 buckets. Apply S3 Lifecycle policies to archive data that is older than 30 days to S3 Glacier Flexible Retrieval.

Answer: C

NEW QUESTION # 141

A company is using an Amazon Redshift database as its single data source. Some of the data is sensitive.

A data scientist needs to use some of the sensitive data from the database. An ML engineer must give the data scientist access to the data without transforming the source data and without storing anonymized data in the database.

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

- A. Unload the Amazon Redshift data to Amazon S3. Create an AWS Glue job to anonymize the data. Share the dataset with

the data scientist.

- B. Create a materialized view with masking logic on top of the database. Grant the necessary read permissions to the data scientist.
- C. Unload the Amazon Redshift data to Amazon S3. Use Amazon Athena to create schema-on-read with masking logic. Share the view with the data scientist.
- D. **Configure dynamic data masking policies to control how sensitive data is shared with the data scientist at query time.**

Answer: D

Explanation:

Dynamic data masking allows you to control how sensitive data is presented to users at query time, without modifying or storing transformed versions of the source data. Amazon Redshift supports dynamic data masking, which can be implemented with minimal effort. This solution ensures that the data scientist can access the required information while sensitive data remains protected, meeting the requirements efficiently and with the least implementation effort.

NEW QUESTION # 142

An ML engineer needs to train a supervised deep learning model. The available dataset is a large number of unlabeled images that only employees should access. The ML engineer needs to implement a solution that labels the dataset with the highest possible accuracy. Which combination of steps should the ML engineer take to meet these requirements? (Choose two.)

- A. **Use Amazon SageMaker Ground Truth to create an annotation job that specifies the labeling task and requirements.**
- B. Train the deep learning model directly on the raw data. Let the model infer the labels by itself.
- C. Use Amazon Mechanical Turk to complete the annotation job created by Amazon SageMaker Ground Truth.
- D. **Set up workforce teams to access a private workforce to run and review the annotation job created by Amazon SageMaker Ground Truth.**
- E. Use Amazon Rekognition to automatically label the dataset.

Answer: A,D

Explanation:

To achieve the highest labeling accuracy with controlled employee-only access, the ML engineer should use Amazon SageMaker Ground Truth to define the annotation job and then assign it to a private workforce of employees for labeling and review. This ensures high-quality, secure labeling restricted to authorized personnel.

NEW QUESTION # 143

Case Study

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 use the central model registry to manage different versions of models in the application. Which action will meet this requirement with the LEAST operational overhead?

- A. **Use the SageMaker Model Registry and model groups to catalog the models.**
- B. Use Amazon Elastic Container Registry (Amazon ECR) and unique tags for each model version.
- C. Use the SageMaker Model Registry and unique tags for each model version.
- D. Create a separate Amazon Elastic Container Registry (Amazon ECR) repository for each model.

Answer: A

Explanation:

Amazon SageMaker Model Registry is a feature designed to manage machine learning (ML) models throughout their lifecycle. It allows users to catalog, version, and deploy models systematically, ensuring efficient model governance and management.

Key Features of SageMaker Model Registry:

- * Centralized Cataloging: Organizes models into Model Groups, each containing multiple versions.
- * Version Control: Maintains a history of model iterations, making it easier to track changes.
- * Metadata Association: Attach metadata such as training metrics and performance evaluations to models.
- * Approval Status Management: Allows setting statuses like PendingManualApproval or Approved to ensure only vetted models are deployed.

* Seamless Deployment: Direct integration with SageMaker deployment capabilities for real-time inference or batch processing.

Implementation Steps:

* Create a Model Group: Organize related models into groups to simplify management and versioning.

* Register Model Versions: Each model iteration is registered as a version within a specific Model Group.

* Set Approval Status: Assign approval statuses to models before deploying them to ensure quality control.

* Deploy the Model: Use SageMaker endpoints for deployment once the model is approved.

Benefits:

* Centralized Management: Provides a unified platform to manage models efficiently.

* Streamlined Deployment: Facilitates smooth transitions from development to production.

* Governance and Compliance: Supports metadata association and approval processes.

By leveraging the SageMaker Model Registry, the company can ensure organized management of models, version control, and efficient deployment workflows with minimal operational overhead.

References:

* AWS Documentation: SageMaker Model Registry

* AWS Blog: Model Registry Features and Usage

NEW QUESTION # 144

An ML engineer needs to use an Amazon EMR cluster to process large volumes of data in batches. Any data loss is unacceptable. Which instance purchasing option will meet these requirements MOST cost-effectively?

- A. Run the primary node, core nodes, and task nodes on On-Demand Instances.
- B. Run the primary node, core nodes, and task nodes on Spot Instances.
- C. Run the primary node on an On-Demand Instance. Run the core nodes and task nodes on Spot Instances.
- D. **Run the primary node and core nodes on On-Demand Instances. Run the task nodes on Spot Instances.**

Answer: D

NEW QUESTION # 145

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