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It requires a comprehensive understanding of the required skills and test topics. To help candidates pass the MLA-C01 exam, Exams4sures has hired qualified experts to compile such Amazon MLA-C01 Exam Dumps that will be essential for your successful preparation in a short time. Our experts have designed such AWS Certified Machine Learning Engineer - Associate (MLA-C01) practice test material that eliminates your chances of failing the AWS Certified Machine Learning Engineer - Associate (MLA-C01) exam.

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">• 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	<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"> • 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.

Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q102-Q107):

NEW QUESTION # 102

A company is planning to use an Amazon SageMaker prebuilt algorithm to create a recommendation model. The algorithm must be able to make predictions on high-dimensional sparse data. Which SageMaker algorithm should the company choose for the recommendation model?

- **A. Factorization Machines**
- B. Sequence-to-Sequence (seq2seq)
- C. Principal component analysis (PCA)
- D. K-nearest neighbors (k-NN)

Answer: A

Explanation:

The Factorization Machines algorithm in SageMaker is specifically designed for recommendation systems and works well with high-dimensional sparse data such as user-item interactions. It efficiently models variable interactions and is the best choice for building a recommendation model in this scenario.

NEW QUESTION # 103

An ML engineer normalized training data by using min-max normalization in AWS Glue DataBrew. The ML engineer must normalize the production inference data in the same way as the training data before passing the production inference data to the model for predictions.

Which solution will meet this requirement?

- A. Calculate a new set of min-max normalization statistics from each production sample. Use these values to normalize all the production samples.
- B. Calculate a new set of min-max normalization statistics from a batch of production samples. Use these values to normalize all the production samples.
- **C. Keep the min-max normalization statistics from the training set. Use these values to normalize the production samples.**
- D. Apply statistics from a well-known dataset to normalize the production samples.

Answer: C

Explanation:

To ensure consistency between training and inference, the min-max normalization statistics (min and max values) calculated during training must be retained and applied to normalize production inference data. Using the same statistics ensures that the model receives data in the same scale and distribution as it did during training, avoiding discrepancies that could degrade model performance. Calculating new statistics from production data would lead to inconsistent normalization and affect predictions.

NEW QUESTION # 104

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

Tag model packages and use model package groups that include container images for training and deployment.

Store predefined language packages, kernels, and relevant dependencies.

Organize models and their images into model groups for better discoverability.

Pull built-in SageMaker AI images for model training.

Answer:

Explanation:

Tag model packages and use model package groups that include container images for training and deployment.

Store predefined language packages, kernels, and relevant dependencies.

Organize models and their images into model groups for better discoverability.

Pull built-in SageMaker AI images for model training.

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.

An ML engineering team has a data processing pipeline that ingests sensor data from IoT devices into an Amazon S3 bucket. The pipeline then processes the data by using AWS Glue extract, transform, and load (ETL) jobs for ML modeling. The team noticed throttling errors in the ETL jobs. The data ingestion process has also been slower than normal. What is the cause of the problem?

- A. The AWS Glue execution role is missing Amazon S3 permissions.
- B. The network bandwidth between the IoT devices and the AWS Region is insufficient.
- C. The AWS Glue ETL jobs are not optimized for parallel processing.
- **D. The AWS Glue service quotas have been reached.**

Answer: D

Explanation:

The correct answer is A. The AWS Glue service quotas have been reached. AWS Glue is commonly used in ML data preparation pipelines to perform ETL operations before model training or feature engineering. When AWS Glue workloads exceed account-level or Region-level service quotas, jobs can be delayed, queued, throttled, or fail. AWS documentation states that AWS Glue has service quotas, also called limits, for resources and operations in each account and Region. These include quotas for concurrent compute capacity measured in DPUs, crawlers, jobs, triggers, queued job runs, and other Glue resources.

The key clue in the question is "throttling errors in the ETL jobs." AWS specifically explains that Glue API requests are throttled on a per-account, per-Region basis to maintain service performance. If the team is running many jobs, processing a large amount of sensor data, or starting too many Glue job runs concurrently, the workload can exceed the permitted quota and cause throttling. Option B is less likely because insufficient network bandwidth between IoT devices and the AWS Region would mainly explain slower ingestion into S3, but it would not directly explain AWS Glue ETL throttling errors. Option C might cause poor job performance, but lack of parallel optimization usually causes long runtimes, not service-level throttling. Option D is incorrect because missing Amazon S3 permissions would typically cause access-denied or authorization failures, not throttling. Therefore, the best cause is that the AWS Glue service quotas, such as concurrent job runs, API rate limits, or DPU capacity limits, have been reached.

NEW QUESTION # 106

A company has a binary classification model in production. An ML engineer needs to develop a new version of the model. The new model version must maximize correct predictions of positive labels and negative labels. The ML engineer must use a metric to recalibrate the model to meet these requirements. Which metric should the ML engineer use for the model recalibration?

- A. Precision
- **B. Accuracy**
- C. Specificity
- D. Recall

Answer: B

NEW QUESTION # 107

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