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TEST REPORT

NCSA-2023ZX-JH-0099-3

工程名称:

袋进袋出消毒验证

Name of engineering

委托单位:

上海翹利生物技术有限公司

Client

检验类别:

委托检验

Test Category

国家空调设备质量检验检测中心


National Center of Quality Inspection and Testing for Air Conditioning Equipment

建科环能科技有限公司建筑环境与能源检测院

Testing Institute of Building Environment and Energy, Jianke EET Co., Ltd.

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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"> • 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 3	<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 4	<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.

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q105-Q110):

NEW QUESTION # 105

An ML engineer is using a training job to fine-tune a deep learning model in Amazon SageMaker Studio. The ML engineer previously used the same pre-trained model with a similar dataset. The ML engineer expects vanishing gradient, underutilized GPU, and overfitting problems.

The ML engineer needs to implement a solution to detect these issues and to react in predefined ways when the issues occur. The solution also must provide comprehensive real-time metrics during the training.

Which solution will meet these requirements with the LEAST operational overhead?

- **A. Use SageMaker Debugger built-in rules to monitor the training job. Configure the rules to initiate the predefined actions.**
- B. Expand the metrics in Amazon CloudWatch to include the gradients in each training step. Use the metrics to invoke an AWS Lambda function to initiate the predefined actions.
- C. Use TensorBoard to monitor the training job. Publish the findings to an Amazon Simple Notification Service (Amazon SNS) topic. Create an AWS Lambda function to consume the findings and to initiate the predefined actions.
- D. Use Amazon CloudWatch default metrics to gain insights about the training job. Use the metrics to invoke an AWS Lambda function to initiate the predefined actions.

Answer: A

NEW QUESTION # 106

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

Answer: B

NEW QUESTION # 107

A company wants to use Amazon SageMaker AI to host an ML model that runs on CPU for real-time predictions. The model has intermittent traffic during business hours and periods of no traffic after business hours.

Which hosting option will serve inference requests in the MOST cost-effective manner?

- A. Deploy the model to a real-time endpoint and activate it only during business hours using AWS Lambda.
- B. Deploy the model to a real-time endpoint with scheduled auto scaling.
- C. Deploy the model to an asynchronous inference endpoint with auto scaling to zero.
- **D. Deploy the model to a SageMaker AI Serverless Inference endpoint with provisioned concurrency during business hours.**

Answer: D

Explanation:

AWS recommends SageMaker Serverless Inference for workloads with intermittent or unpredictable traffic.

Serverless inference automatically scales compute resources to zero when idle, eliminating costs during periods with no traffic.

For business-hour traffic spikes, provisioned concurrency ensures low-latency responses while still avoiding the cost of continuously running instances. This model is especially cost-effective for CPU-based inference workloads.

Real-time endpoints incur costs even when idle, and asynchronous inference is designed for long-running jobs rather than low-latency predictions.

AWS documentation explicitly states that Serverless Inference is the most cost-effective option for intermittent real-time workloads. Therefore, Option B is the correct choice.

NEW QUESTION # 108

An ML engineer is using an Amazon SageMaker AI shadow test to evaluate a new model that is hosted on a SageMaker AI endpoint. The shadow test requires significant GPU resources for high performance. The production variant currently runs on a less powerful instance type.

The ML engineer needs to configure the shadow test to use a higher performance instance type for a shadow variant. The solution must not affect the instance type of the production variant.

Which solution will meet these requirements?

- **A. Use the CreateEndpointConfig action to define a new configuration. Specify the existing production variant in the configuration and add a separate ShadowProductionVariants list. Specify the larger instance type for the shadow variant. Use the CreateEndpoint action and pass the new configuration to the endpoint.**
- B. Create a new endpoint configuration with two ProductionVariant definitions. Configure one definition for the existing production variant and one definition for the shadow variant with the larger instance type. Use the UpdateEndpoint action to apply the new configuration.
- C. Create a separate SageMaker AI endpoint for the shadow variant that uses the larger instance type. Create an AWS Lambda function that routes a portion of the traffic to the shadow endpoint. Assign the Lambda function to the original endpoint.
- D. Modify the existing ProductionVariant configuration in the endpoint to include a ShadowProductionVariants list. Specify the larger instance type for the shadow variant.

Answer: A

Explanation:

Amazon SageMaker AI shadow testing enables ML engineers to evaluate new model versions by sending a copy of live production traffic to a shadow variant without affecting production inference responses. AWS documentation specifies that shadow variants are configured separately from production variants and can use different instance types, including higher-performance GPU instances.

The correct approach is to create a new endpoint configuration using the CreateEndpointConfig API. This configuration includes the existing production variant and a separate ShadowProductionVariants list. The shadow variant can be assigned a larger instance type

to meet GPU performance requirements while leaving the production variant unchanged. After creating the configuration, the engineer deploys it using the CreateEndpoint action.

Option A is incorrect because production variant configurations cannot be directly modified to include shadow variants. Option B is incorrect because shadow variants are not defined as standard production variants; defining two production variants would route traffic differently and could affect production behavior. Option C introduces unnecessary complexity and deviates from SageMaker's built-in shadow testing functionality.

AWS explicitly documents that shadow variants are designed to isolate testing resources, support different instance types, and ensure zero impact on production inference. Therefore, Option D is the correct and AWS- recommended solution.

NEW QUESTION # 109

A company wants to improve its customer retention ML model. The current model has 85% accuracy and a new model shows 87% accuracy in testing. The company wants to validate the new model's performance in production.

Which solution will meet these requirements?

- A. Implement alternating deployments for 4 weeks between the current model and the new model. Track performance metrics for comparison.
- **B. Run A/B testing on both models for 4 weeks. Route 20% of traffic to the new model. Monitor customer retention rates across both variants.**
- C. Deploy the new model for 4 weeks across all production traffic. Monitor performance metrics and validate improvements.
- D. Run both models in parallel for 4 weeks. Analyze offline predictions weekly by using historical customer data analysis.

Answer: B

Explanation:

AWS ML best practices recommend A/B testing to validate model improvements in production while minimizing risk. By routing a controlled portion of live traffic (for example, 20%) to the new model and keeping the majority of traffic on the existing model, the company can directly compare real-world performance using the same data distribution.

This approach allows statistically meaningful comparison of business metrics such as customer retention, rather than relying solely on offline accuracy. It also limits potential negative impact if the new model underperforms in production.

Deploying the new model to 100% of traffic (Option A) introduces unnecessary risk. Offline analysis (Option C) does not reflect live user behavior. Alternating deployments (Option D) introduces confounding factors such as time-based effects.

Therefore, A/B testing is the correct solution.

NEW QUESTION # 110

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