

Amazon - MLA-C01–Useful Exam Lab Questions

EXAMTOPICS

Topic 1 - Exam A

Question #1: Topic 1

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

Community redistribution

Question #2: Topic 1

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 is experimenting with consecutive training jobs. How can the company MINIMIZE infrastructure startup times for these jobs?

- A. Use Managed Spot Training.
- B. Use SageMaker managed warm pools.
- C. Use SageMaker Training Compiler.
- D. Use the SageMaker distributed data parallelism (SMDDP) library.

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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"> • 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 (Q81-Q86):

NEW QUESTION # 81

A company has an ML model that uses historical transaction data to predict customer behavior.

An ML engineer is optimizing the model in Amazon SageMaker to enhance the model's predictive accuracy. The ML engineer must examine the input data and the resulting predictions to identify trends that could skew the model's performance across different demographics.

Which solution will provide this level of analysis?

- A. Use Amazon CloudWatch to monitor network metrics and CPU metrics for resource optimization during model training.
- B. Create AWS Lambda functions to automate data pre-processing and to ensure consistent quality of input data for the model.
- **C. Use SageMaker Clarify to evaluate the model and training data for underlying patterns that might affect accuracy.**
- D. Create AWS Glue DataBrew recipes to correct the data based on statistics from the model output.

Answer: C

NEW QUESTION # 82

An IoT company uses Amazon SageMaker to train and test an XGBoost model for object detection. ML engineers need to monitor performance metrics when they train the model with variants in hyperparameters. The ML engineers also need to send Short Message Service (SMS) text messages after training is complete.

Which solution will meet these requirements?

- **A. Use Amazon CloudWatch to monitor performance metrics. Use Amazon Simple Notification Service (Amazon SNS) for**

message delivery.

- B. Use AWS CloudTrail to monitor performance metrics. Use Amazon Simple Notification Service (Amazon SNS) for message delivery.
- C. Use Amazon CloudWatch to monitor performance metrics. Use Amazon Simple Queue Service (Amazon SQS) for message delivery.
- D. Use AWS CloudTrail to monitor performance metrics. Use Amazon Simple Queue Service (Amazon SQS) for message delivery.

Answer: A

NEW QUESTION # 83

A company uses a training job on Amazon SageMaker AI to train a neural network. The job first trains a model and then evaluates the model's performance against a test dataset. The company uses the results from the evaluation phase to decide if the trained model will go to production.

The training phase takes too long. The company needs solutions that can shorten training time without decreasing the model's final performance.

Select the correct solutions from the following list to meet the requirements for each description. Select each solution one time or not at all. (Select THREE.)

- Change the epoch count.
- Choose an Amazon EC2 Spot Fleet.
- Change the batch size.
- Use early stopping on the training job.
- Use the SageMaker AI distributed data parallelism (SMDDP) library.
- Stop the training job.

Answer:

Explanation:

Explanation:

Change the number of samples used in each iteration of training

Correct selection:

Change the batch size

Why:

Increasing the batch size reduces the number of iterations per epoch, which can significantly shorten training time while maintaining model quality when tuned appropriately. AWS explicitly recommends batch size tuning as a primary performance optimization.

Increase the number of instances used during training

Correct selection:

Use the SageMaker AI distributed data parallelism (SMDDP) library

Why:

SMDDP is designed to efficiently distribute training data across multiple GPU instances with optimized gradient synchronization. This accelerates training without affecting model convergence or accuracy, unlike naive scaling approaches.

Stop training before the maximum number of epochs are reached if performance is sufficient and not improving

Correct selection:

Use early stopping on the training job

Why:

Early stopping automatically terminates training when validation metrics stop improving. AWS recommends this to reduce wasted compute time while preserving optimal model performance.

NEW QUESTION # 84

A company has developed a new ML model. The company requires online model validation on 10% of the traffic before the company fully releases the model in production. The company uses an Amazon SageMaker endpoint behind an Application Load Balancer (ALB) to serve the model.

Which solution will set up the required online validation with the LEAST operational overhead?

- A. Use production variants to add the new model to the existing SageMaker endpoint. Set the variant weight to 1 for the new model. Monitor the number of invocations by using Amazon CloudWatch.
- B. Configure the ALB to route 10% of the traffic to the new model at the existing SageMaker endpoint. Monitor the number of invocations by using AWS CloudTrail.
- C. Create a new SageMaker endpoint. Use production variants to add the new model to the new endpoint.

Monitor the number of invocations by using Amazon CloudWatch.

- **D. Use production variants to add the new model to the existing SageMaker endpoint. Set the variant weight to 0.1 for the new model. Monitor the number of invocations by using Amazon CloudWatch.**

Answer: D

Explanation:

Scenario: The company wants to perform online validation of a new ML model on 10% of the traffic before fully deploying the model in production. The setup must have minimal operational overhead.

Why Use SageMaker Production Variants?

* Built-In Traffic Splitting: Amazon SageMaker endpoints support production variants, allowing multiple models to run on a single endpoint. You can direct a percentage of incoming traffic to each variant by adjusting the variant weights.

* Ease of Management: Using production variants eliminates the need for additional infrastructure like separate endpoints or custom ALB configurations.

* Monitoring with CloudWatch: SageMaker automatically integrates with CloudWatch, enabling real-time monitoring of model performance and invocation metrics.

Steps to Implement:

* Deploy the New Model as a Production Variant:

* Update the existing SageMaker endpoint to include the new model as a production variant. This can be done via the SageMaker console, CLI, or SDK.

Example SDK Code:

```
import boto3
sm_client = boto3.client('sagemaker')
response = sm_client.update_endpoint_weights_and_capacities(
    EndpointName='existing-endpoint-name',
    DesiredWeightsAndCapacities=[
        {'VariantName': 'current-model', 'DesiredWeight': 0.9},
        {'VariantName': 'new-model', 'DesiredWeight': 0.1}
    ]
)
```

* Set the Variant Weight:

* Assign a weight of 0.1 to the new model and 0.9 to the existing model. This ensures 10% of traffic goes to the new model while the remaining 90% continues to use the current model.

* Monitor the Performance:

* Use Amazon CloudWatch metrics, such as InvocationCount and ModelLatency, to monitor the traffic and performance of each variant.

* Validate the Results:

* Analyze the performance of the new model based on metrics like accuracy, latency, and failure rates.

Why Not the Other Options?

* Option B: Setting the weight to 1 directs all traffic to the new model, which does not meet the requirement of splitting traffic for validation.

* Option C: Creating a new endpoint introduces additional operational overhead for traffic routing and monitoring, which is unnecessary given SageMaker's built-in production variant capability.

* Option D: Configuring the ALB to route traffic requires manual setup and lacks SageMaker's seamless variant monitoring and traffic splitting features.

Conclusion:

Using production variants with a weight of 0.1 for the new model on the existing SageMaker endpoint provides the required traffic split for online validation with minimal operational overhead.

References:

Amazon SageMaker Endpoints

SageMaker Production Variants

Monitoring SageMaker Endpoints with CloudWatch

NEW QUESTION # 85

An ML engineer wants to re-train an XGBoost model at the end of each month. A data team prepares the training data. The training dataset is a few hundred megabytes in size. When the data is ready, the data team stores the data as a new file in an Amazon S3 bucket.

The ML engineer needs a solution to automate this pipeline. The solution must register the new model version in Amazon SageMaker Model Registry within 24 hours.

Which solution will meet these requirements?

- A. Create an S3 Lifecycle rule to start the pipeline every time a new object is uploaded to the S3 bucket.
- B. Create an AWS Lambda function that runs one time each week to poll the S3 bucket for new files. Invoke the Lambda function asynchronously. Configure the Lambda function to start the pipeline if the function detects new data.
- C. Create an Amazon CloudWatch rule that runs on a schedule to start the pipeline every 30 days.
- **D. Create an Amazon EventBridge rule to start an AWS Step Functions TrainingStep every time a new object is uploaded to the S3 bucket.**

Answer: D

Explanation:

The requirement is event-driven automation when new data arrives in Amazon S3, followed by training and model registration. Amazon EventBridge natively supports S3 object creation events and can trigger downstream workflows immediately. By using EventBridge to start an AWS Step Functions workflow that includes a training step and a SageMaker Model Registry registration step, the pipeline runs automatically as soon as new data is uploaded-well within the 24-hour requirement. Option A introduces unnecessary polling and delay. Option B is time-based and does not ensure alignment with data readiness. Option C is invalid because S3 Lifecycle rules manage object transitions, not workflow execution. Therefore, EventBridge-triggered Step Functions is the correct solution.

NEW QUESTION # 86

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