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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">• 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"> • 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"> • 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.

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q136-Q141):

NEW QUESTION # 136

A travel company has trained hundreds of geographic data models to answer customer questions by using Amazon SageMaker AI. Each model uses its own inferencing endpoint, which has become an operational challenge for the company. The company wants to consolidate the models' inferencing endpoints to reduce operational overhead. Which solution will meet these requirements?

- **A. Use SageMaker AI multi-model endpoints. Deploy a single endpoint.**
- B. Use Amazon SageMaker Studio. Deploy a single-model endpoint.
- C. Use inference pipelines in SageMaker AI to combine tasks from hundreds of models to 15 models.
- D. Use SageMaker AI multi-container endpoints. Deploy a single endpoint.

Answer: A

Explanation:

AWS provides Amazon SageMaker Multi-Model Endpoints to host multiple trained models behind a single inference endpoint. This feature dynamically loads models into memory based on request traffic, significantly reducing endpoint sprawl and operational overhead.

Multi-model endpoints are ideal when an organization has hundreds or thousands of related models, such as geographic or regional models, that are not all invoked simultaneously. AWS documentation highlights this approach as a best practice for cost optimization and simplified deployment management.

Option B (multi-container endpoints) is intended for chaining a small number of models, not hundreds.

Option C does not address endpoint consolidation. Option D changes the modeling strategy and is not required.

Therefore, using a single SageMaker multi-model endpoint is the correct solution.

NEW QUESTION # 137

An ML engineer wants an Amazon SageMaker notebook to automatically stop running after 1 hour of idle time. How can the ML engineer accomplish this goal?

- A. Track the notebook's memory metric by using Amazon CloudWatch Logs. Invoke an AWS Lambda function from CloudWatch Logs to shut down the notebook instance if memory utilization becomes zero.
- B. Track the notebook's CPU metric by using Amazon CloudWatch Logs. Invoke an AWS Lambda function from CloudWatch Logs to shut down the notebook instance if CPU utilization becomes zero.
- **C. Create a lifecycle configuration in SageMaker. Copy the auto-stop-idle script from GitHub to the Start Notebook section.**
- D. Create a lifecycle configuration in SageMaker. Copy the auto-stop-idle script from GitHub to the Create Notebook section.

Answer: C

Explanation:

The correct approach is to use a SageMaker lifecycle configuration and place the auto-stop-idle script in the Start Notebook section. This ensures the notebook runs the monitoring script on startup, which checks for idle time and automatically stops the notebook after the defined threshold (1 hour in this case).

NEW QUESTION # 138

A company wants to host an ML model on Amazon SageMaker. An ML engineer is configuring a continuous integration and continuous delivery (CI/CD) pipeline in AWS CodePipeline to deploy the model. The pipeline must run automatically when new training data for the model is uploaded to an Amazon S3 bucket.

Select and order the pipeline's correct steps from the following list. Each step should be selected one time or not at all. (Select and order three.)

- * An S3 event notification invokes the pipeline when new data is uploaded.
- * S3 Lifecycle rule invokes the pipeline when new data is uploaded.
- * SageMaker retrains the model by using the data in the S3 bucket.
- * The pipeline deploys the model to a SageMaker endpoint.
- * The pipeline deploys the model to SageMaker Model Registry.

Answer:

Explanation:

□ Explanation:

Step 1: An S3 event notification invokes the pipeline when new data is uploaded.

Step 2: SageMaker retrains the model by using the data in the S3 bucket.

Step 3: The pipeline deploys the model to a SageMaker endpoint.

□ * Step 1: An S3 Event Notification Invokes the Pipeline When New Data is Uploaded

* Why? The CI/CD pipeline should be triggered automatically whenever new training data is uploaded to Amazon S3. S3 event notifications can be configured to send events to AWS services like Lambda, which can then invoke AWS CodePipeline.

* How? Configure the S3 bucket to send event notifications (e.g., s3:ObjectCreated:*) to AWS Lambda, which in turn triggers the CodePipeline.

* Step 2: SageMaker Retrains the Model by Using the Data in the S3 Bucket

* Why? The uploaded data is used to retrain the ML model to incorporate new information and maintain performance. This step is critical to updating the model with fresh data.

* How? Define a SageMaker training step in the CI/CD pipeline, which reads the training data from the S3 bucket and retrains the model.

* Step 3: The Pipeline Deploys the Model to a SageMaker Endpoint

* Why? Once retrained, the updated model must be deployed to a SageMaker endpoint to make it available for real-time inference.

* How? Add a deployment step in the CI/CD pipeline, which automates the creation or update of the SageMaker endpoint with the retrained model.

Order Summary:

* An S3 event notification invokes the pipeline when new data is uploaded.

* SageMaker retrains the model by using the data in the S3 bucket.

* The pipeline deploys the model to a SageMaker endpoint.

This configuration ensures an automated, efficient, and scalable CI/CD pipeline for continuous retraining and deployment of the ML model in Amazon SageMaker.

NEW QUESTION # 139

A data scientist uses logistic regression to build a fraud detection model. While the model accuracy is 99%, 90% of the fraud cases are not detected by the model.

What action will definitively help the model detect more than 10% of fraud cases?

- A. Using regularization to reduce overfitting
- B. Using oversampling to balance the dataset
- C. Using undersampling to balance the dataset
- **D. Decreasing the class probability threshold**

Answer: D

Explanation:

Decreasing the class probability threshold makes the model more sensitive and, therefore, marks more cases as the positive class, which is fraud in this case. This will increase the likelihood of fraud detection. However, it comes at the price of lowering precision.

NEW QUESTION # 140

A company is developing an application that reads animal descriptions from user prompts and generates images based on the information in the prompts. The application reads a message from an Amazon Simple Queue Service (Amazon SQS) queue. Then the application uses Amazon Titan Image Generator on Amazon Bedrock to generate an image based on the information in the message. Finally, the application removes the message from SQS queue.

Which IAM permissions should the company assign to the application's IAM role? (Select TWO.)

- A. Allow the sagemaker:PutRecord* action for the Amazon Titan Image Generator resource.
- **B. Allow the sqs:ReceiveMessage action and the sqs:DeleteMessage action for the SQS queue resource.**
- **C. Allow the bedrock:InvokeModel action for the Amazon Titan Image Generator resource.**
- D. Allow the bedrock:Get* action for the Amazon Titan Image Generator resource.
- E. Allow the sqs:GetQueueAttributes action and the sqs:DeleteMessage action for the SQS queue resource.

Answer: B,C

Explanation:

To generate images, the application must invoke a foundation model hosted on Amazon Bedrock. Invoking the Amazon Titan Image Generator requires the bedrock:InvokeModel permission. Read-only permissions such as bedrock:Get* do not allow inference execution and are insufficient.

The application also interacts with Amazon Simple Queue Service. To process messages, the application must be able to receive messages from the queue and delete them after successful processing. These actions require sqs:ReceiveMessage and sqs:DeleteMessage.

sqs:GetQueueAttributes alone does not allow message consumption. SageMaker permissions are unrelated because Bedrock is a separate service.

Therefore, permissions to invoke the model and receive/delete SQS messages are required.

NEW QUESTION # 141

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