

MLA-C01 Prüfungsressourcen: AWS Certified Machine Learning Engineer - Associate & MLA-C01 Reale Fragen



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Amazon MLA-C01 Prüfungsplan:

Thema	Einzelheiten
Thema 1	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.
Thema 2	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.
Thema 3	- 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.
Thema 4	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.

>> MLA-C01 Vorbereitung <<

MLA-C01 Zertifikatsfragen, MLA-C01 Prüfungen

Prüfungsfrage ist führend in der neuesten Amazon MLA-C01 Zertifizierungsprüfung und Prüfungsvorbereitung. Unsere Ressourcen werden ständig überarbeitet und aktualisiert mit einer engen Verknüpfung. Wenn Sie sich heute auf die Amazon MLA-C01 Zertifizierungsprüfung vorbereiten, sollen Sie bald die neueste Schulung beginnen und die nächste Prüfungsfragen bestehen. Weil die Mehrheit unserer Fragen monatlich aktualisiert ist, werden Sie die besten Ressourcen mit marktfrischer Qualität und Zuverlässigkeit bekommen.

Amazon AWS Certified Machine Learning Engineer - Associate MLA-C01 Prüfungsfragen mit Lösungen (Q117-Q122):

117. Frage

A company is using an AWS Lambda function to monitor the metrics from an ML model. An ML engineer needs to implement a solution to send an email message when the metrics breach a threshold.

Which solution will meet this requirement?

- A. Log the metrics from the Lambda function to AWS CloudTrail. Configure a CloudTrail trail to send the email message.
- B. Log the metrics from the Lambda function to Amazon CloudFront. Configure an Amazon CloudWatch alarm to send the email message.
- C. Log the metrics from the Lambda function to Amazon CloudWatch. Configure a CloudWatch alarm to send the email message.
- **D. Log the metrics from the Lambda function to Amazon CloudWatch. Configure an Amazon CloudFront rule to send the email message.**

Antwort: D

Begründung:

Logging the metrics to Amazon CloudWatch allows the metrics to be tracked and monitored effectively.

CloudWatch Alarms can be configured to trigger when metrics breach a predefined threshold.

The alarm can be set to notify through Amazon Simple Notification Service (SNS), which can send email messages to the configured recipients.

This is the standard and most efficient way to achieve the desired functionality.

118. Frage

A medical company needs to store clinical data. The data includes personally identifiable information (PII) and protected health information (PHI).

An ML engineer needs to implement a solution to ensure that the PII and PHI are not used to train ML models.

Which solution will meet these requirements?

- A. Upload the clinical data to an Amazon Redshift database. Use built-in SQL stored procedures to automatically classify and mask the PII and PHI before the data is used for model training.
- B. Store the clinical data in Amazon S3 buckets. Use AWS Glue DataBrew to mask the PII and PHI before the data is used for model training.
- **C. Use Amazon Comprehend to detect and mask the PII before the data is used for model training. Use Amazon Comprehend Medical to detect and mask the PHI before the data is used for model training.**
- D. Create an AWS Lambda function to encrypt the PII and PHI. Program the Lambda function to save the encrypted data to an Amazon S3 bucket for model training.

Antwort: C

119. Frage

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.

Antwort:

Begründung:

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.

120. Frage

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. Keep the min-max normalization statistics from the training set. Use these values to normalize the production samples.
- B. Apply statistics from a well-known dataset 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.

Antwort: A

121. Frage

Hotspot Question

An ML engineer is building a generative AI application on Amazon Bedrock by using large language models (LLMs).

Select the correct generative AI term from the following list for each description. Each term should be selected one time or not at all. (Select three.)

- Embedding
- Retrieval Augmented Generation (RAG)
- Temperature
- Token

Antwort:

Begründung:

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