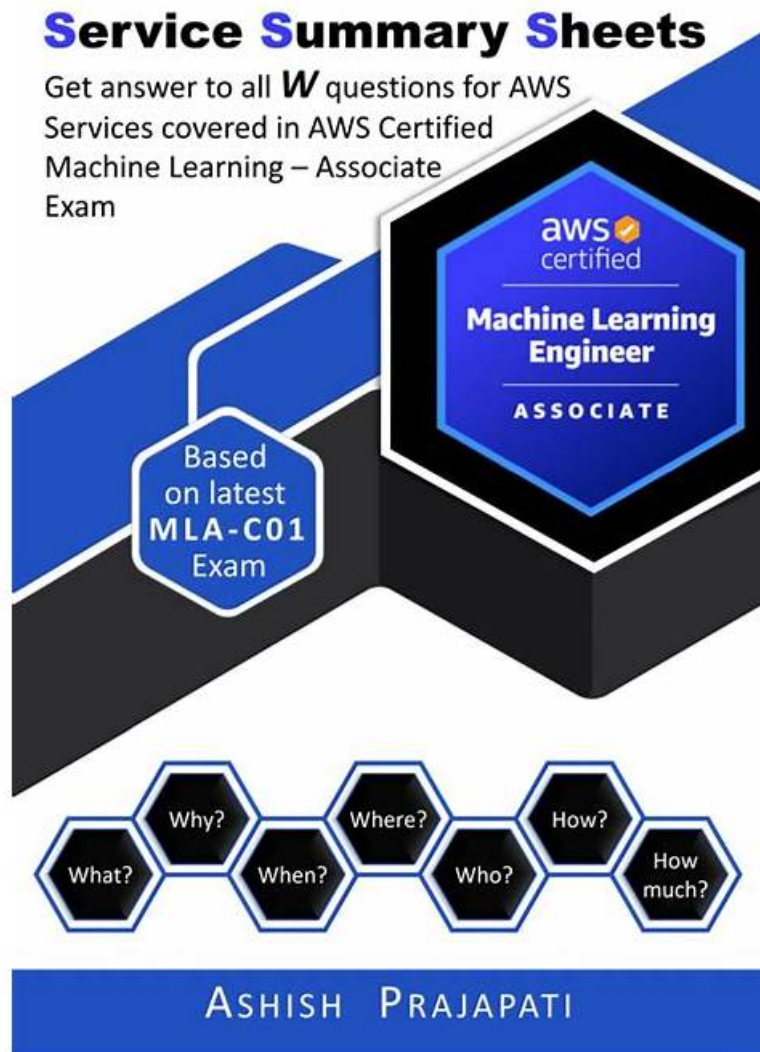


Amazon MLA-C01 Prüfung Übungen und Antworten



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Amazon MLA-C01 Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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 2	• 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.
Thema 3	• 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 4	• 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.

>> MLA-C01 Originale Fragen <<

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Amazon AWS Certified Machine Learning Engineer - Associate MLA-C01 Prüfungsfragen mit Lösungen (Q97-Q102):

97. Frage

A data scientist is working on optimizing a model during the training process by varying multiple parameters. The data scientist observes that, during multiple runs with identical parameters, the loss function converges to different, yet stable, values. What should the data scientist do to improve the training process?

- **A. Decrease the learning rate. Reduce the batch size.**
- B. Do not change the learning rate. Increase the batch size.
- C. Increase the learning rate. Keep the batch size the same.
- D. Decrease the learning rate. Keep the batch size the same.

Antwort: A

Begründung:

It is most likely that the loss function is very curvy and has multiple local minima where the training is getting stuck. Decreasing the batch size would help the data scientist stochastically get out of the local minima saddles. Decreasing the learning rate would prevent overshooting the global loss function minimum.

98. Frage

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 run an on-demand workflow to monitor bias drift for models that are deployed to real-time endpoints from

the application.

Which action will meet this requirement?

- A. Use AWS Glue Data Quality to monitor bias.
- B. Use SageMaker notebooks to compare the bias.
- **C. Configure the application to invoke an AWS Lambda function that runs a SageMaker Clarify job.**
- D. Invoke an AWS Lambda function to pull the sagemaker-model-monitor-analyzer built-in SageMaker image.

Antwort: C

Begründung:

Monitoring bias drift in deployed machine learning models is crucial to ensure fairness and accuracy over time. Amazon SageMaker Clarify provides tools to detect bias in ML models, both during training and after deployment. To monitor bias drift for models deployed to real-time endpoints, an effective approach involves orchestrating SageMaker Clarify jobs using AWS Lambda functions.

Implementation Steps:

* Set Up Data Capture:

* Enable data capture on the SageMaker endpoint to record input data and model predictions. This captured data serves as the basis for bias analysis.

* Develop a Lambda Function:

* Create an AWS Lambda function configured to initiate a SageMaker Clarify job. This function will process the captured data to assess bias metrics.

* Schedule or Trigger the Lambda Function:

* Configure the Lambda function to run on-demand or at scheduled intervals using Amazon CloudWatch Events or EventBridge.

This setup allows for regular bias monitoring as per the application's requirements.

* Analyze and Respond to Results:

* After each Clarify job completes, review the generated bias reports. If bias drift is detected, take appropriate actions, such as retraining the model or adjusting data preprocessing steps.

Advantages of This Approach:

* Automation: Utilizing AWS Lambda for orchestrating Clarify jobs enables automated and scalable bias monitoring without manual intervention.

* Cost-Effectiveness: AWS Lambda's serverless nature ensures that you only pay for the compute time consumed during the execution of the function, optimizing resource usage.

* Flexibility: The solution can be tailored to specific monitoring needs, allowing for adjustments in monitoring frequency and analysis parameters.

By implementing this solution, the company can effectively monitor bias drift in real-time, ensuring that the AI application maintains fairness and accuracy throughout its lifecycle.

References:

* Bias drift for models in production - Amazon SageMaker

* Schedule Bias Drift Monitoring Jobs - Amazon SageMaker

99. Frage

An ML engineer has an Amazon Comprehend custom model in Account A in the us-east-1 Region. The ML engineer needs to copy the model to Account B in the same Region.

Which solution will meet this requirement with the LEAST development effort?

- **A. Create a resource-based IAM policy. Use the Amazon Comprehend ImportModel API operation to copy the model to Account B.**
- B. Create an AWS Site-to-Site VPN connection between Account A and Account B to transfer the model.
- C. Use Amazon S3 to make a copy of the model. Transfer the copy to Account B.
- D. Use AWS DataSync to replicate the model from Account A to Account B.

Antwort: A

100. Frage

A company has AWS Glue data processing jobs that are orchestrated by an AWS Glue workflow.

The AWS Glue jobs can run on a schedule or can be launched manually.

The company is developing pipelines in Amazon SageMaker Pipelines for ML model development. The pipelines will use the output of the AWS Glue jobs during the data processing phase of model development. An ML engineer needs to implement a solution that

integrates the AWS Glue jobs with the pipelines.

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

- A. Use Amazon EventBridge to invoke the pipelines and the AWS Glue jobs in the desired order.
- B. Use AWS Step Functions for orchestration of the pipelines and the AWS Glue jobs.
- C. Use processing steps in SageMaker Pipelines. Configure inputs that point to the Amazon Resource Names (ARNs) of the AWS Glue jobs.
- **D. Use Callback steps in SageMaker Pipelines to start the AWS Glue workflow and to stop the pipelines until the AWS Glue jobs finish running.**

Antwort: D

101. Frage

Hotspot Question

An ML engineer needs to use Amazon SageMaker Feature Store to create and manage features to train a model.

Select and order the steps from the following list to create and use the features in Feature Store.

Each step should be selected one time. (Select and order three.)

- Access the store to build datasets for training.
- Create a feature group.
- Ingest the records.

Step 1: 

Access the store to build datasets for training.
Create a feature group.
Ingest the records.

Step 2:

Access the store to build datasets for training.
Create a feature group.
Ingest the records.

Step 3:

Access the store to build datasets for training.
Create a feature group.
Ingest the records.

Antwort:

Begründung:

Step 1:

Access the store to build datasets for training.
Create a feature group.
Ingest the records.

Step 2:

Access the store to build datasets for training.
Create a feature group.
Ingest the records.

Step 3:

Access the store to build datasets for training.
Create a feature group.
Ingest the records.

102. Frage

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