

MLA-C01 Ausbildungsressourcen & MLA-C01 Testengine



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Die Qualität muss sich bawähren, was die Amazon MLA-C01 von uns ZertSoft Ihnen genau garantieren können, weil wir immer die Test-Bank aktualisieren. Die fachliche Erklärungen der Antworten von unserer professionellen Gruppe machen unsere Produkte der Schlüssel des Bestehens der Amazon MLA-C01. Die Versprechung „volle Rückerstattung bei der Durchfall“, ist auch Motivation für unser Team. Wir wollen für Sie die Prüfungsunterlagen der Amazon MLA-C01 immer verbessern. Innerhalb einem Jahr nach Ihrem Kauf, können Sie die neuesten Unterlagen der Amazon MLA-C01 weiter genießen ohne zusätzliche Gebühren.

Viele Menschen haben Sorgen darum, dass sie in der Prüfung durchfallen, auch wenn sie sich schon lange auf Amazon MLA-C01 Prüfung vorbereitet, nur weil sie nicht an der Prüfungsatmosphäre gewöhnt sind. Deshalb bieten wir Ihnen die Möglichkeit, vor der Prüfung die realistische Prüfungsatmosphäre zu erfahren. Amazon MLA-C01 Simulierte-Software enthält zahlreiche Prüfungsaufgaben mit ausführliche Erklärungen der Antworten von den Experten. Damit können Sie Ihre Fähigkeit verbessern und ausreichende Vorbereitung der Amazon MLA-C01 Prüfung haben.

>> MLA-C01 Ausbildungsressourcen <<

MLA-C01 Der beste Partner bei Ihrer Vorbereitung der AWS Certified Machine Learning Engineer - Associate

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Amazon MLA-C01 Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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 2	• 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 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	• 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 MLA-C01 Prüfungsfragen mit Lösungen (Q73-Q78):

73. 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 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. Use the SageMaker Model Registry and unique tags for each model version.
- 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. Create a separate Amazon Elastic Container Registry (Amazon ECR) repository for each model.

Antwort: C

Begründung:

Amazon SageMaker Model Registry is a feature designed to manage machine learning (ML) models throughout their lifecycle. It allows users to catalog, version, and deploy models systematically, ensuring efficient model governance and management.

Key Features of SageMaker Model Registry:

- * **Centralized Cataloging:** Organizes models into Model Groups, each containing multiple versions.
- * **Version Control:** Maintains a history of model iterations, making it easier to track changes.
- * **Metadata Association:** Attach metadata such as training metrics and performance evaluations to models.
- * **Approval Status Management:** Allows setting statuses like PendingManualApproval or Approved to ensure only vetted models are deployed.

* **Seamless Deployment:** Direct integration with SageMaker deployment capabilities for real-time inference or batch processing.

Implementation Steps:

- * **Create a Model Group:** Organize related models into groups to simplify management and versioning.
- * **Register Model Versions:** Each model iteration is registered as a version within a specific Model Group.
- * **Set Approval Status:** Assign approval statuses to models before deploying them to ensure quality control.
- * **Deploy the Model:** Use SageMaker endpoints for deployment once the model is approved.

Benefits:

- * **Centralized Management:** Provides a unified platform to manage models efficiently.
- * **Streamlined Deployment:** Facilitates smooth transitions from development to production.
- * **Governance and Compliance:** Supports metadata association and approval processes.

By leveraging the SageMaker Model Registry, the company can ensure organized management of models, version control, and efficient deployment workflows with minimal operational overhead.

References:

- * AWS Documentation: SageMaker Model Registry
- * AWS Blog: Model Registry Features and Usage

74. Frage

A company is running ML models on premises by using custom Python scripts and proprietary datasets. The company is using PyTorch. The model building requires unique domain knowledge. The company needs to move the models to AWS.

Which solution will meet these requirements with the LEAST effort?

- A. Build a container on AWS that includes custom packages and a choice of ML frameworks.
- B. Use SageMaker built-in algorithms to train the proprietary datasets.
- **C. Use SageMaker script mode and premade images for ML frameworks.**
- D. Purchase similar production models through AWS Marketplace.

Antwort: C

Begründung:

SageMaker script mode allows you to bring existing custom Python scripts and run them on AWS with minimal changes.

SageMaker provides prebuilt containers for ML frameworks like PyTorch, simplifying the migration process. This approach enables the company to leverage their existing Python scripts and domain knowledge while benefiting from the scalability and managed environment of SageMaker. It requires the least effort compared to building custom containers or retraining models from scratch.

75. Frage

A company has historical data that shows whether customers needed long-term support from company staff. The company needs to develop an ML model to predict whether new customers will require long-term support.

Which modeling approach should the company use to meet this requirement?

- **A. Logistic regression**
- B. Anomaly detection
- C. Linear regression
- D. Semantic segmentation

Antwort: A

76. Frage

An ML engineer needs to process thousands of existing CSV objects and new CSV objects that are uploaded.

The CSV objects are stored in a central Amazon S3 bucket and have the same number of columns. One of the columns is a transaction date. The ML engineer must query the data based on the transaction date.

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

- **A. Use an Amazon Athena CREATE TABLE AS SELECT (CTAS) statement to create a table based on the transaction date from data in the central S3 bucket. Query the objects from the table.**
- B. Create a new S3 bucket for processed data. Set up S3 replication from the central S3 bucket to the new S3 bucket. Use S3 Object Lambda to query the objects based on transaction date.
- C. Create a new S3 bucket for processed data. Use AWS Glue for Apache Spark to create a job to query the CSV objects based on transaction date. Configure the job to store the results in the new S3 bucket. Query the objects from the new S3 bucket.
- D. Create a new S3 bucket for processed data. Use Amazon Data Firehose to transfer the data from the central S3 bucket to the new S3 bucket. Configure Firehose to run an AWS Lambda function to query the data based on transaction date.

Antwort: A

Begründung:

Scenario: The ML engineer needs a low-overhead solution to query thousands of existing and new CSV objects stored in Amazon S3 based on a transaction date.

Why Athena?

* Serverless: Amazon Athena is a serverless query service that allows direct querying of data stored in S3 using standard SQL,

reducing operational overhead.

* Ease of Use: By using the CTAS statement, the engineer can create a table with optimized partitions based on the transaction date. Partitioning improves query performance and minimizes costs by scanning only relevant data.

* Low Operational Overhead: No need to manage or provision additional infrastructure. Athena integrates seamlessly with S3, and CTAS simplifies table creation and optimization.

Steps to Implement:

* Organize Data in S3: Store CSV files in a bucket in a consistent format and directory structure if possible.

* Configure Athena: Use the AWS Management Console or Athena CLI to set up Athena to point to the S3 bucket.

* Run CTAS Statement:

```
CREATE TABLE processed_data
WITH (
  format = 'PARQUET',
  external_location = 's3://processed-bucket',
  partitioned_by = ARRAY['transaction_date']
) AS
SELECT *
FROM input_data;
```

This creates a new table with data partitioned by transaction date.

* Query the Data: Use standard SQL queries to fetch data based on the transaction date.

References:

* Amazon Athena CTAS Documentation

* Partitioning Data in Athena

77. Frage

A medical company ingests streams of data from devices that monitor patients' vital signs. The company uses Amazon SageMaker and plans to prepare ML models to predict adverse events for patients. The dataset is large with thousands of features.

An ML engineer needs to run several hundred training iterations with different sets of features, different algorithms, and many potential parameters. The ML engineer must implement a solution to log the characteristics and results of each training iteration.

Which solution will meet these requirements with the LEAST implementation effort?

- A. Write the characteristics of each iteration to logs in Amazon S3. Use AWS Glue and Amazon Athena to search the logs.
- **B. Use SageMaker Experiments to track the characteristics and results of each iteration.**
- C. Use the SageMaker Model Registry to track the characteristics and results of each iteration.
- D. Use Amazon CloudWatch to create custom metrics for the characteristics of each iteration.

Antwort: B

Begründung:

SageMaker Experiments is specifically designed to track and organize ML experiments, including characteristics such as features, algorithms, parameters, and results. It provides experiment tracking with minimal implementation effort, making it the best fit for logging and comparing multiple training iterations.

78. Frage

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