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Amazon MLA-C01

Certified Machine Learning Engineer -
Associate

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Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 3	<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 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 MLA-C01 PDF Questions – Best Exam Preparation Strategy

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q86-Q91):

NEW QUESTION # 86

A company wants to improve the sustainability of its ML operations.

Which actions will reduce the energy usage and computational resources that are associated with the company's training jobs? (Choose two.)

- **A. Use Amazon SageMaker Debugger to stop training jobs when non-converging conditions are detected.**
- B. Use Amazon SageMaker Ground Truth for data labeling.
- C. Deploy models by using AWS Lambda functions.
- **D. Use AWS Trainium instances for training.**
- E. Use PyTorch or TensorFlow with the distributed training option.

Answer: A,D

NEW QUESTION # 87

A company must install a custom script on any newly created Amazon SageMaker notebook instances.

Which solution will meet this requirement with the LEAST operational overhead?

- A. Create a custom package index repository. Use AWS CodeArtifact to manage the installation of the custom script. Set up

AWS PrivateLink endpoints to connect CodeArtifact to the SageMaker instance. Install the script.

- **B. Create a lifecycle configuration script to install the custom script when a new SageMaker notebook is created. Attach the lifecycle configuration to every new SageMaker notebook as part of the creation steps.**
- C. Create a custom Amazon Elastic Container Registry (Amazon ECR) image that contains the custom script. Push the ECR image to a Docker registry. Attach the Docker image to a SageMaker Studio domain. Select the kernel to run as part of the SageMaker notebook.
- D. Store the custom script in Amazon S3. Create an AWS Lambda function to install the custom script on new SageMaker notebooks. Configure Amazon EventBridge to invoke the Lambda function when a new SageMaker notebook is initialized.

Answer: B

NEW QUESTION # 88

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. 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.
- 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 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.
- **D. 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.**

Answer: D

NEW QUESTION # 89

A company has trained an ML model in Amazon SageMaker. The company needs to host the model to provide inferences in a production environment.

The model must be highly available and must respond with minimum latency. The size of each request will be between 1 KB and 3 MB. The model will receive unpredictable bursts of requests during the day. The inferences must adapt proportionally to the changes in demand.

How should the company deploy the model into production to meet these requirements?

- A. Install SageMaker Operator on an Amazon Elastic Kubernetes Service (Amazon EKS) cluster. Deploy the model in Amazon EKS. Set horizontal pod auto scaling to scale replicas based on the memory metric.
- **B. Create a SageMaker real-time inference endpoint. Configure auto scaling. Configure the endpoint to present the existing model.**
- C. Use Spot Instances with a Spot Fleet behind an Application Load Balancer (ALB) for inferences. Use the ALBRequestCountPerTarget metric as the metric for auto scaling.
- D. Deploy the model on an Amazon Elastic Container Service (Amazon ECS) cluster. Use ECS scheduled scaling that is based on the CPU of the ECS cluster.

Answer: B

Explanation:

Amazon SageMaker real-time inference endpoints are designed to provide low-latency predictions in production environments. They offer built-in auto scaling to handle unpredictable bursts of requests, ensuring high availability and responsiveness. This approach is fully managed, reduces operational complexity, and is optimized for the range of request sizes (1 KB to 3 MB) specified in the requirements.

NEW QUESTION # 90

Case study

An ML engineer is developing a fraud detection model on AWS. The training dataset includes transaction logs, customer profiles,

and tables from an on-premises MySQL database. The transaction logs and customer profiles are stored in Amazon S3. The dataset has a class imbalance that affects the learning of the model's algorithm. Additionally, many of the features have interdependencies. The algorithm is not capturing all the desired underlying patterns in the data. The training dataset includes categorical data and numerical data. The ML engineer must prepare the training dataset to maximize the accuracy of the model.

Which action will meet this requirement with the LEAST operational overhead?

- A. Use AWS Glue to transform the numerical data into categorical data.
- B. Use Amazon SageMaker Data Wrangler to transform the numerical data into categorical data.
- C. Use AWS Glue to transform the categorical data into numerical data.
- **D. Use Amazon SageMaker Data Wrangler to transform the categorical data into numerical data.**

Answer: D

Explanation:

Preparing a training dataset that includes both categorical and numerical data is essential for maximizing the accuracy of a machine learning model. Transforming categorical data into numerical format is a critical step, as most ML algorithms require numerical input.

Why Transform Categorical Data into Numerical Data?

- * **Model Compatibility:** Many ML algorithms cannot process categorical data directly and require numerical representations.
- * **Improved Performance:** Proper encoding of categorical variables can enhance model accuracy and convergence speed.

Why Use Amazon SageMaker Data Wrangler?

Amazon SageMaker Data Wrangler offers a visual interface with over 300 built-in data transformations, including tools for encoding categorical variables.

Implementation Steps:

- * **Import Data:**
- * Load the dataset into SageMaker Data Wrangler from sources like Amazon S3 or on-premises databases.
- * **Identify Categorical Features:**
- * Use Data Wrangler's data type inference to detect categorical columns.
- * **Apply Categorical Encoding:**
- * Choose appropriate encoding techniques (e.g., one-hot encoding or ordinal encoding) from Data Wrangler's transformation options.
- * Apply the selected transformation to convert categorical features into numerical format.
- * **Validate Transformations:**
- * Review the transformed dataset to ensure accuracy and completeness.

Advantages of Using SageMaker Data Wrangler:

- * **Ease of Use:** Provides a user-friendly interface for data transformation without extensive coding.
- * **Operational Efficiency:** Integrates data preparation steps, reducing the need for multiple tools and minimizing operational overhead.
- * **Flexibility:** Supports various data sources and transformation techniques, accommodating diverse datasets.

By utilizing SageMaker Data Wrangler to transform categorical data into numerical format, the ML engineer can efficiently prepare the dataset, thereby enhancing the model's accuracy with minimal operational overhead.

References:

- * Transform Data - Amazon SageMaker
- * Prepare ML Data with Amazon SageMaker Data Wrangler

NEW QUESTION # 91

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