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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"> • 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"> • 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 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.

Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q76-Q81):

NEW QUESTION # 76

A manufacturing company uses an ML model to determine whether products meet a standard for quality. The model produces an output of "Passed" or "Failed." Robots separate the products into the two categories by using the model to analyze photos on the assembly line.

Which metrics should the company use to evaluate the model's performance? (Choose two.)

- A. Root mean square error (RMSE) and mean absolute percentage error (MAPE)
- B. Precision and recall
- C. Perplexity
- D. Bilingual Evaluation Understudy (BLEU) score
- E. Accuracy and F1 score

Answer: B,E

NEW QUESTION # 77

A company has an ML model that needs to run one time each night to predict stock values. The model input is 3 MB of data that is collected during the current day. The model produces the predictions for the next day.

The prediction process takes less than 1 minute to finish running.

How should the company deploy the model on Amazon SageMaker to meet these requirements?

- A. Use a serverless inference endpoint. Set the MaxConcurrency parameter to 1.
- B. Use a real-time endpoint. Configure an auto scaling policy to scale the model to 0 when the model is not in use.
- C. Use an asynchronous inference endpoint. Set the InitialInstanceCount parameter to 0.
- D. Use a multi-model serverless endpoint. Enable caching.

Answer: A

Explanation:

A serverless inference endpoint in Amazon SageMaker is ideal for use cases where the model is invoked infrequently, such as

running one time each night. It eliminates the cost of idle resources when the model is not in use. Setting the MaxConcurrency parameter to 1 ensures cost-efficiency while supporting the required single nightly invocation. This solution minimizes costs and matches the requirement to process a small amount of data quickly.

NEW QUESTION # 78

A company has a team of data scientists who use Amazon SageMaker notebook instances to test ML models. When the data scientists need new permissions, the company attaches the permissions to each individual role that was created during the creation of the SageMaker notebook instance.

The company needs to centralize management of the team's permissions.

Which solution will meet this requirement?

- A. Create a single IAM role that has the necessary permissions. Attach the role to each notebook instance that the team uses.
- B. Create a single IAM group. Add the data scientists to the group. Associate the group with each notebook instance that the team uses.
- C. Create a single IAM group. Add the data scientists to the group. Create an IAM role. Attach the AdministratorAccess AWS managed IAM policy to the role. Associate the role with the group. Associate the group with each notebook instance that the team uses.
- D. Create a single IAM user. Attach the AdministratorAccess AWS managed IAM policy to the user. Configure each notebook instance to use the IAM user.

Answer: A

NEW QUESTION # 79

A company has an Amazon S3 bucket that contains 1 TB of files from different sources. The S3 bucket contains the following file types in the same S3 folder: CSV, JSON, XLSX, and Apache Parquet.

An ML engineer must implement a solution that uses AWS Glue DataBrew to process the data.

The ML engineer also must store the final output in Amazon S3 so that AWS Glue can consume the output in the future.

Which solution will meet these requirements?

- A. Use DataBrew to process the existing S3 folder. Store the output in Apache Parquet format.
- B. Separate the data into a different folder for each file type. Use DataBrew to process each folder individually. Store the output in Apache Parquet format.
- C. Separate the data into a different folder for each file type. Use DataBrew to process each folder individually. Store the output in AWS Glue Parquet format.
- D. Use DataBrew to process the existing S3 folder. Store the output in AWS Glue Parquet format.

Answer: B

NEW QUESTION # 80

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 is experimenting with consecutive training jobs.

How can the company MINIMIZE infrastructure startup times for these jobs?

- A. Use the SageMaker distributed data parallelism (SMDDP) library.
- B. Use SageMaker managed warm pools.
- C. Use SageMaker Training Compiler.
- D. Use Managed Spot Training.

Answer: B

NEW QUESTION # 81

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