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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q168-Q173):

NEW QUESTION # 168

A company has multiple models that are hosted on Amazon SageMaker AI. The models need to be re-trained. The requirements for each model are different, so the company needs to choose different deployment strategies to transfer all requests to a new model.

Select the correct strategy from the following list for each requirement. Select each strategy one time. (Select THREE.)

- . Canary traffic shifting
- . Linear traffic shifting guardrail
- . All at once traffic shifting

Answer:

Explanation:

□ Explanation:

1## Simultaneous calls to the endpoint must reach models with the same configuration Correct strategy: All at once traffic shifting Why:

"All at once" replaces the old model with the new model immediately. After the switch, all concurrent requests hit only the new model configuration, guaranteeing configuration consistency across simultaneous calls.

2## The new model must receive only a fraction of the requests for validation before receiving all the traffic Correct strategy: Canary traffic shifting Why:

Canary deployments route a small percentage of traffic (for example, 5% or 10%) to the new model first. This allows validation of correctness and performance before shifting 100% of traffic.

3## Traffic to the new model must increase gradually to ensure that pipelines that rely on the endpoint do not fail because of changes in latency Correct strategy: Linear traffic shifting guardrail Why:

Linear traffic shifting gradually increases traffic in equal increments over time and includes guardrails (such as CloudWatch alarms) to automatically roll back if latency or errors exceed thresholds.

NEW QUESTION # 169

An ML engineer needs to use metrics to assess the quality of a time-series forecasting model.

Which metrics apply to this model? (Choose two.)

- A. Root mean square error (RMSE)
- B. InferenceLatency
- C. LogLoss
- D. Recall
- E. Average weighted quantile loss (wQL)

Answer: A,E

NEW QUESTION # 170

An ML engineer must choose the appropriate Amazon SageMaker algorithm to solve specific AI problems.

Select the correct SageMaker built-in algorithm from the following list for each use case. Each algorithm should be selected one time.

- * Random Cut Forest (RCF) algorithm
- * Semantic segmentation algorithm
- * Sequence-to-Sequence (seq2seq) algorithm

□

Answer:

Explanation:

□ Explanation:

Use case 1:

Summarize the text of a research paper

Sequence-to-Sequence (seq2seq) algorithm

Why:

Seq2seq models are designed for natural language generation tasks such as text summarization, translation, and paraphrasing. AWS documentation explicitly lists text summarization as a primary use case for the SageMaker seq2seq algorithm.

Use case 2:

Scan every pixel of an image to help self-driving cars identify objects in their path

Semantic segmentation algorithm

Why:

Semantic segmentation performs pixel-level classification, assigning a class label to every pixel in an image.

This is exactly what is required for applications such as autonomous driving, road scene understanding, and object boundary detection.

Use case 3:

Identify abnormal data points in a dataset

Random Cut Forest (RCF) algorithm

Why:

Random Cut Forest is an unsupervised anomaly detection algorithm. AWS SageMaker RCF is purpose-built to identify outliers, unusual patterns, and anomalies in numerical datasets, making it ideal for fraud detection, monitoring, and abnormal data point detection.

NEW QUESTION # 171

A company has an ML model that uses historical transaction data to predict customer behavior.

An ML engineer is optimizing the model in Amazon SageMaker to enhance the model's predictive accuracy. The ML engineer must examine the input data and the resulting predictions to identify trends that could skew the model's performance across different demographics.

Which solution will provide this level of analysis?

- A. Use Amazon CloudWatch to monitor network metrics and CPU metrics for resource optimization during model training.
- **B. Use SageMaker Clarify to evaluate the model and training data for underlying patterns that might affect accuracy.**
- C. Create AWS Lambda functions to automate data pre-processing and to ensure consistent quality of input data for the model.
- D. Create AWS Glue DataBrew recipes to correct the data based on statistics from the model output.

Answer: B

NEW QUESTION # 172

A company wants to share data with a vendor in real time to improve the performance of the vendor's ML models. The vendor needs to ingest the data in a stream. The vendor will use only some of the columns from the streamed data.

Which solution will meet these requirements?

- A. Use AWS Data Exchange to stream the data to an Amazon S3 bucket. Use an Amazon Athena CREATE TABLE AS SELECT (CTAS) query to define relevant columns.
- B. Create an Amazon S3 bucket. Configure the S3 bucket policy to allow the vendor to upload data to the S3 bucket. Configure the S3 bucket policy to control which columns are shared.
- **C. Use Amazon Kinesis Data Streams to ingest the data. Use Amazon Managed Service for Apache Flink as a consumer to extract relevant columns.**
- D. Use AWS Lake Formation to ingest the data. Use the column-level filtering feature in Lake Formation to extract relevant columns.

Answer: C

Explanation:

The requirement specifies real-time streaming ingestion and column-level transformation before sharing data with a vendor. Amazon Kinesis Data Streams is designed for low-latency, real-time data ingestion and delivery.

To extract only required columns from the stream, AWS recommends using Amazon Managed Service for Apache Flink as a stream consumer. Flink enables real-time transformations such as filtering, projection, and enrichment on streaming data before delivering it downstream.

Option A and D are batch-oriented and not suitable for real-time streaming. Option C is incorrect because S3 bucket policies cannot enforce column-level access controls.

Therefore, Kinesis Data Streams combined with Apache Flink meets all requirements.

NEW QUESTION # 173

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