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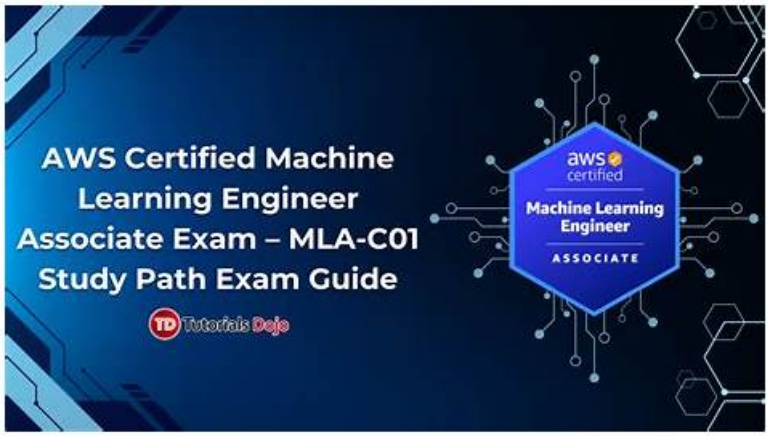

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Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q49-Q54):

NEW QUESTION # 49
A healthcare company wants to detect irregularities in patient vital signs that could indicate early signs of a medical condition. The company has an unlabeled dataset that includes patient health records, medication history, and lifestyle changes.
Which algorithm and hyperparameter should the company use to meet this requirement?

- A. Use the Amazon SageMaker AI DeepAR algorithm. Set epochs to the number of training iterations.
- B. Use the Amazon SageMaker AI k-means clustering algorithm. Set k to determine the number of clusters.
- C. Use the Amazon SageMaker AI XGBoost algorithm. Set max_depth to greater than 100 to regulate tree complexity.
- D. Use the Amazon SageMaker AI Random Cut Forest (RCF) algorithm. Set num_trees to greater than 100.

Answer: D

Explanation:
The requirement is to detect irregularities (anomalies) in patient data using an unlabeled dataset, which clearly defines an unsupervised anomaly detection problem. According to AWS documentation, Amazon SageMaker Random Cut Forest (RCF) is purpose-built for detecting anomalies in high-dimensional, continuous datasets such as healthcare metrics and time-series-like records.
RCF works by constructing multiple random decision trees that partition the data. Observations that are isolated closer to the root of these trees are more likely to be anomalies. AWS explicitly recommends RCF for use cases such as fraud detection, system monitoring, and healthcare anomaly detection.
The num_trees hyperparameter controls the number of trees in the forest. Increasing num_trees improves anomaly detection accuracy and stability by averaging anomaly scores across more trees, which is especially important in sensitive domains like healthcare. AWS documentation notes that larger forests provide better generalization and more reliable anomaly scores.
Option A (XGBoost) is a supervised learning algorithm and requires labeled data, making it unsuitable.
Option B (k-means) performs clustering but does not explicitly detect anomalies. Option C (DeepAR) is designed for time-series forecasting, not anomaly detection in unlabeled datasets.
Therefore, using Amazon SageMaker Random Cut Forest with a higher num_trees value is the most appropriate, scalable, and AWS-recommended solution.

NEW QUESTION # 50
A medical company is using AWS to build a tool to recommend treatments for patients. The company has obtained health records and self-reported textual information in English from patients. The company needs to use this information to gain insight about the patients.
Which solution will meet this requirement with the LEAST development effort?

- A. Use Amazon SageMaker to build a recurrent neural network (RNN) to summarize the data.
- B. Use Amazon Comprehend Medical to summarize the data.
- C. Use Amazon Kendra to create a quick-search tool to query the data.
- D. Use the Amazon SageMaker Sequence-to-Sequence (seq2seq) algorithm to create a text summary from the data.

Answer: B

NEW QUESTION # 51
An ML engineer wants to deploy an Amazon SageMaker AI model for inference. The payload sizes are less than 3 MB. Processing time does not exceed 45 seconds. The traffic patterns will be irregular or unpredictable.
Which inference option will meet these requirements MOST cost-effectively?

- A. Real-time inference
- B. Serverless inference
- C. Asynchronous inference
- D. Batch transform

Answer: B

Explanation:
Amazon SageMaker Serverless Inference is designed for irregular or unpredictable traffic patterns. It automatically provisions and scales compute resources based on request volume and scales down to zero when idle, making it the most cost-effective option.
Serverless inference supports payloads up to 6 MB and request durations up to 60 seconds, which comfortably meets the stated constraints. Customers are billed only for actual compute usage during inference execution, not for idle capacity.
Asynchronous inference is intended for long-running jobs (up to 1 hour) and large payloads (up to 1 GB).
Real-time inference requires always-on instances, increasing cost during idle periods. Batch transform is designed for offline processing.
Therefore, serverless inference is the optimal choice.

NEW QUESTION # 52
A company is developing an ML model to forecast future values based on time series data. The dataset includes historical measurements collected at regular intervals and categorical features. The model needs to predict future values based on past patterns

and trends.
Which algorithm and hyperparameters should the company use to develop the model?

- A. Use the Amazon SageMaker AI XGBoost algorithm. Set the scale_pos_weight hyperparameter to adjust for class imbalance.
- B. Use k-means clustering with k to specify the number of clusters.
- C. Use the Amazon SageMaker AI Random Cut Forest (RCF) algorithm with contamination to set the expected proportion of anomalies.
- D. Use the Amazon SageMaker AI DeepAR algorithm with matching context length and prediction length hyperparameters.

Answer: D

Explanation:
The problem is a time series forecasting task with historical data and categorical features. Amazon SageMaker DeepAR is purpose-built for this use case. DeepAR uses recurrent neural networks to learn temporal patterns across multiple related time series and supports categorical covariates.
The context length hyperparameter controls how much historical data the model uses as input, while the prediction length specifies how far into the future the model forecasts. Correctly setting these hyperparameters is critical for capturing trends and seasonality.
XGBoost is a general-purpose tabular algorithm and does not model temporal dependencies natively. k-means is a clustering algorithm. Random Cut Forest is used for anomaly detection, not forecasting.
Therefore, DeepAR with appropriate context and prediction lengths is the correct and AWS-recommended solution.

NEW QUESTION # 53
An ML engineer needs to create data ingestion pipelines and ML model deployment pipelines on AWS. All the raw data is stored in Amazon S3 buckets.
Which solution will meet these requirements?

- A. Use Amazon Data Firehose to create the data ingestion pipelines. Use Amazon SageMaker Studio Classic to create the model deployment pipelines.
- B. Use Amazon Redshift ML to create the data ingestion pipelines. Use Amazon SageMaker Studio Classic to create the model deployment pipelines.
- C. Use AWS Glue to create the data ingestion pipelines. Use Amazon SageMaker Studio Classic to create the model deployment pipelines.
- D. Use Amazon Athena to create the data ingestion pipelines. Use an Amazon SageMaker notebook to create the model deployment pipelines.

Answer: C

NEW QUESTION # 54
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