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Amazon AWS Certified AI Practitioner Sample Questions (Q151-Q156):

NEW QUESTION # 151

A company is monitoring a predictive model by using Amazon SageMaker Model Monitor. The company notices data drift beyond a defined threshold. The company wants to mitigate a potentially adverse impact on the predictive model.

- A. Re-train the model with fresh data.
- B. Restart the SageMaker AI endpoint.
- C. Set up experiments tracking.
- D. Adjust the monitoring sensitivity.

Answer: A

Explanation:

The correct answer is C - Re-train the model with fresh data. AWS SageMaker Model Monitor is designed to detect data drift, feature drift, and model quality degradation in real-time. When drift exceeds a set threshold, AWS recommends initiating a retraining workflow with updated data to restore model accuracy. According to AWS documentation, data drift indicates that the distribution of incoming data has changed significantly from the original training dataset-often due to new user behaviors, market changes, or seasonal patterns.

Restarting the endpoint (A) does not address degraded model performance. Adjusting sensitivity (B) suppresses the alert but does not fix the underlying issue. Experiments tracking (D) is helpful for monitoring model versions but is not corrective. Retraining ensures the model adapts to new data patterns and continues to perform reliably, which is the AWS-endorsed response to drift detection alerts.

Referenced AWS Documentation:

- * Amazon SageMaker Model Monitor - Detecting Drift
- * AWS ML Ops Best Practices - Continuous Retraining

NEW QUESTION # 152

An online learning company with large volumes of educational materials wants to use enterprise search. Which AWS service meets these requirements?

- A. Amazon Comprehend
- B. Amazon Personalize
- **C. Amazon Kendra**
- D. Amazon Textract

Answer: C

Explanation:

* Amazon Kendra is an enterprise search service that uses machine learning to index and search unstructured data such as documents, manuals, and course materials.

* Amazon Comprehend performs NLP tasks like sentiment analysis and entity recognition, not enterprise search.

* Amazon Textract extracts structured text from scanned docs and PDFs.

* Amazon Personalize builds recommendation systems, not search engines.

Reference:

AWS Documentation - Amazon Kendra

NEW QUESTION # 153

A company wants to make a chatbot to help customers. The chatbot will help solve technical problems without human intervention. The company chose a foundation model (FM) for the chatbot. The chatbot needs to produce responses that adhere to company tone.

Which solution meets these requirements?

- **A. Refine the prompt until the FM produces the desired responses.**
- B. Define a higher number for the temperature parameter.
- C. Use batch inferencing to process detailed responses.
- D. Set a low limit on the number of tokens the FM can produce.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact AWS AI documents:

Prompt engineering is the primary method for controlling tone, style, and behavior of foundation model responses.

AWS generative AI guidance explains that:

* Prompts can define tone, voice, and response structure

* Iterative refinement ensures consistent outputs

* Prompt refinement requires no model retraining

Why the other options are incorrect:

* Token limits (A) affect length, not tone.

* Batch inferencing (B) affects processing mode, not response style.

* Higher temperature (D) increases randomness, reducing consistency.

AWS AI document references:

- * Prompt Engineering Best Practices
- * Controlling Model Output Tone
- * Using Prompts with Foundation Models on AWS

NEW QUESTION # 154

A company wants to develop a solution that uses generative AI to create content for product advertisements, including sample images and slogans.

Select the correct model type from the following list for each action. Each model type should be selected one time. (Select THREE.)

- * Diffusion model
- * Object detection model
- * Transformer-based model

Answer:

Explanation:

Diffusion models are state-of-the-art generative models for creating high-quality, realistic images from textual prompts or other forms of conditioning. These are the foundational technology behind tools like Amazon Bedrock Titan Image Generator and other generative image models.

Reference: AWS Generative AI Overview, Diffusion Models Explained - AWS Blog Transformer-based models (such as GPT or Amazon Titan Text) are designed for generating and understanding natural language. These models can generate coherent, contextually relevant slogans based on product information.

Reference: AWS Generative AI on Bedrock, Transformers Explained - AWS

Object detection models are designed to identify and locate objects within images, which makes them suitable for verifying that specific brand elements (like logos or products) are correctly positioned in the generated content.

Reference: AWS Rekognition Object Detection, Object Detection Overview - AWS

NEW QUESTION # 155

A company uses Amazon SageMaker for its ML pipeline in a production environment. The company has large input data sizes up to 1 GB and processing times up to 1 hour. The company needs near real-time latency.

Which SageMaker inference option meets these requirements?

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

Answer: B

Explanation:

Real-time inference is designed to provide immediate, low-latency predictions, which is necessary when the company requires near real-time latency for its ML models. This option is optimal when there is a need for fast responses, even with large input data sizes and substantial processing times.

Option A (Correct): "Real-time inference": This is the correct answer because it supports low-latency requirements, which are essential for real-time applications where quick response times are needed.

Option B: "Serverless inference" is incorrect because it is more suited for intermittent, small-scale inference workloads, not for continuous, large-scale, low-latency needs.

Option C: "Asynchronous inference" is incorrect because it is used for workloads that do not require immediate responses.

Option D: "Batch transform" is incorrect as it is intended for offline, large-batch processing where immediate response is not necessary.

AWS AI Practitioner Reference:

Amazon SageMaker Inference Options: AWS documentation describes real-time inference as the best solution for applications that require immediate prediction results with low latency.

NEW QUESTION # 156

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- [illegible]

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