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Amazon AWS Certified AI Practitioner Sample Questions (Q28-Q33):

NEW QUESTION # 28

A company wants to use large language models (LLMs) with Amazon Bedrock to develop a chat interface for the company's product manuals. The manuals are stored as PDF files.

Which solution meets these requirements MOST cost-effectively?

- A. Use prompt engineering to add all the PDF files as context to the user prompt when the prompt is submitted to Amazon Bedrock.
- B. Upload PDF documents to an Amazon Bedrock knowledge base. Use the knowledge base to provide context when users submit prompts to Amazon Bedrock.
- C. Use all the PDF documents to fine-tune a model with Amazon Bedrock. Use the fine-tuned model to process user prompts.

- D. Use prompt engineering to add one PDF file as context to the user prompt when the prompt is submitted to Amazon Bedrock.

Answer: D

Explanation:

Using Amazon Bedrock with large language models (LLMs) allows for efficient utilization of AI to answer queries based on context provided in product manuals. To achieve this cost-effectively, the company should avoid unnecessary use of resources.

* Option A (Correct): "Use prompt engineering to add one PDF file as context to the user prompt when the prompt is submitted to Amazon Bedrock". This is the most cost-effective solution. By using prompt engineering, only the relevant content from one PDF file is added as context to each query. This approach minimizes the amount of data processed, which helps in reducing costs associated with LLMs' computational requirements.

* Option B: "Use prompt engineering to add all the PDF files as context to the user prompt when the prompt is submitted to Amazon Bedrock" is incorrect. Including all PDF files would increase costs significantly due to the large context size processed by the model.

* Option C: "Use all the PDF documents to fine-tune a model with Amazon Bedrock" is incorrect. Fine-tuning a model is more expensive than using prompt engineering, especially if done for multiple documents.

* Option D: "Upload PDF documents to an Amazon Bedrock knowledge base" is incorrect because Amazon Bedrock does not have a built-in knowledge base feature for directly managing and querying PDF documents.

AWS AI Practitioner References:

* Prompt Engineering for Cost-Effective AI: AWS emphasizes the importance of using prompt engineering to minimize costs when interacting with LLMs. By carefully selecting relevant context, users can reduce the amount of data processed and save on expenses.

NEW QUESTION # 29

A medical company is customizing a foundation model (FM) for diagnostic purposes. The company needs the model to be transparent and explainable to meet regulatory requirements.

Which solution will meet these requirements?

- A. Generate simple metrics, reports, and examples by using Amazon SageMaker Clarify.
- B. Encrypt and secure training data by using Amazon Macie.
- C. Gather more data. Use Amazon Rekognition to add custom labels to the data.
- D. Configure security and compliance by using Amazon Inspector.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact AWS AI documents:

Amazon SageMaker Clarify provides tools for:

- * Model explainability
- * Bias detection
- * Transparency through metrics, reports, and explanations

For regulated industries such as healthcare, AWS recommends Clarify to:

- * Explain model predictions
- * Demonstrate fairness and accountability
- * Support regulatory and ethical requirements

Why the other options are incorrect:

- * Inspector (A) focuses on security vulnerabilities.
- * Macie (C) focuses on data security and privacy.
- * Rekognition (D) is for image labeling, not explainability.

AWS AI document references:

- * Amazon SageMaker Clarify Documentation
- * Responsible AI on AWS
- * Explainable AI for Regulated Industries

NEW QUESTION # 30

A company is using an Amazon Bedrock base model to summarize documents for an internal use case. The company trained a custom model to improve the summarization quality.

Which action must the company take to use the custom model through Amazon Bedrock?

- A. Purchase Provisioned Throughput for the custom model.
- B. Grant access to the custom model in Amazon Bedrock.
- C. Deploy the custom model in an Amazon SageMaker endpoint for real-time inference.
- D. Register the model with the Amazon SageMaker Model Registry.

Answer: C

Explanation:

To use a custom model that has been trained to improve summarization quality, the company must deploy the model on an Amazon SageMaker endpoint. This allows the model to be used for real-time inference through Amazon Bedrock or other AWS services. By deploying the model in SageMaker, the custom model can be accessed programmatically via API calls, enabling integration with Amazon Bedrock.

Option B (Correct): "Deploy the custom model in an Amazon SageMaker endpoint for real-time inference":

This is the correct answer because deploying the model on SageMaker enables it to serve real-time predictions and be integrated with Amazon Bedrock.

Option A: "Purchase Provisioned Throughput for the custom model" is incorrect because provisioned throughput is related to database or storage services, not model deployment.

Option C: "Register the model with the Amazon SageMaker Model Registry" is incorrect because while the model registry helps with model management, it does not make the model accessible for real-time inference.

Option D: "Grant access to the custom model in Amazon Bedrock" is incorrect because Bedrock does not directly manage custom model access; it relies on deployed endpoints like those in SageMaker.

AWS AI Practitioner References:

Amazon SageMaker Endpoints: AWS recommends deploying models to SageMaker endpoints to use them for real-time inference in various applications.

NEW QUESTION # 31

A company wants to create an application by using Amazon Bedrock. The company has a limited budget and prefers flexibility without long-term commitment.

Which Amazon Bedrock pricing model meets these requirements?

- A. Spot Instance
- B. Model customization
- C. Provisioned Throughput
- D. On-Demand

Answer: D

NEW QUESTION # 32

A company wants to identify harmful language in the comments section of social media posts by using an ML model. The company will not use labeled data to train the model. Which strategy should the company use to identify harmful language?

- A. Use Amazon SageMaker AI built-in algorithms to train the model.
- B. Use Amazon Polly to monitor comments.
- C. Use Amazon Rekognition moderation.
- D. Use Amazon Comprehend toxicity detection.

Answer: D

Explanation:

Amazon Comprehend toxicity detection is a managed NLP service that can analyze text for harmful or toxic language using pre-trained models-no need for labeled data or custom training.

* B is correct: Comprehend's toxicity detection API is designed for this use case, works out-of-the-box, and requires no data labeling or model training.

* A (Rekognition) is for image and video content moderation.

* C would require labeled data for training.

* D (Polly) is for text-to-speech, not content moderation.

"Amazon Comprehend can detect toxicity in text with pre-trained models, requiring no labeled training data." (Reference: Amazon Comprehend Toxicity Detection, AWS AI Practitioner Official Guide)

NEW QUESTION # 33

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