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Amazon AWS Certified AI Practitioner Sample Questions (Q38-Q43):

NEW QUESTION # 38

A company runs a website for users to make travel reservations. The company wants an AI solution to help create consistent branding for hotels on the website. The AI solution needs to generate hotel descriptions for the website in a consistent writing style. Which AWS service will meet these requirements?

- A. Amazon Personalize
- B. Amazon Rekognition
- C. Amazon Bedrock
- D. Amazon Comprehend

Answer: C

Explanation:

The correct answer is D because Amazon Bedrock provides access to foundation models (FMs) from various providers for generative AI use cases, including text generation. It supports generating content in a consistent tone, voice, or writing style using prompts or few-shot examples.

From AWS documentation:

"Amazon Bedrock allows you to build and scale generative AI applications using foundation models from AI21 Labs, Anthropic,

Cohere, Meta, Mistral, Stability AI, and Amazon. These models can generate text with controlled tone and style for applications like branding, content creation, and copywriting." Explanation of other options:

A). Amazon Comprehend is for natural language understanding, such as sentiment analysis and entity recognition, not generation.

B). Amazon Personalize is for building recommendation systems, not content generation.

C). Amazon Rekognition is for image and video analysis, not text generation.

Referenced AWS AI/ML Documents and Study Guides:

* Amazon Bedrock Developer Guide - Generative AI Use Cases

* AWS Certified Machine Learning Specialty Guide - Content Generation with FMs

NEW QUESTION # 39

Which option is a benefit of using Amazon SageMaker Model Cards to document AI models?

- A. Reducing the overall computational requirements of a model.
- B. Providing a visually appealing summary of a model's capabilities.
- C. Physically storing models for archival purposes.
- **D. Standardizing information about a model's purpose, performance, and limitations.**

Answer: D

Explanation:

Amazon SageMaker Model Cards provide a standardized way to document important details about an AI model, such as its purpose, performance, intended usage, and known limitations. This enables transparency and compliance while fostering better communication between stakeholders. It does not store models physically or optimize computational requirements. References: AWS SageMaker Model Cards Documentation.

NEW QUESTION # 40

An ecommerce company is deploying a chatbot. The chatbot will give users the ability to ask questions about the company's products and receive details on users' orders. The company must implement safeguards for the chatbot to filter harmful content from the input prompts and chatbot responses.

Which AWS feature or resource meets these requirements?

- A. Amazon Bedrock inference APIs
- **B. Amazon Bedrock Guardrails**
- C. Amazon Bedrock custom models
- D. Amazon Bedrock Agents

Answer: B

Explanation:

The ecommerce company is deploying a chatbot that needs safeguards to filter harmful content from input prompts and responses. Amazon Bedrock Guardrails provide mechanisms to ensure responsible AI usage by filtering harmful content, such as hate speech, violence, or misinformation, making it the appropriate feature for this requirement.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Amazon Bedrock Guardrails enable developers to implement safeguards for generative AI applications, such as chatbots, by filtering harmful content in input prompts and model responses. Guardrails include content filters, word filters, and denied topics to ensure safe and responsible outputs." (Source: AWS Bedrock User Guide, Guardrails for Responsible AI) Detailed Explanation:

* Option A: Amazon Bedrock Guardrails This is the correct answer. Amazon Bedrock Guardrails are specifically designed to filter harmful content from chatbot inputs and responses, ensuring safe interactions for users.

* Option B: Amazon Bedrock Agents Amazon Bedrock Agents are used to automate tasks and integrate with external tools, not to filter harmful content. This option does not meet the requirement.

* Option C: Amazon Bedrock inference APIs Amazon Bedrock inference APIs allow users to invoke foundation models for generating responses, but they do not provide built-in content filtering mechanisms.

* Option D: Amazon Bedrock custom models Custom models on Amazon Bedrock allow users to fine-tune models, but they do not inherently include safeguards for filtering harmful content unless explicitly implemented.

References:

AWS Bedrock User Guide: Guardrails for Responsible AI (<https://docs.aws.amazon.com/bedrock/latest/userguide/guardrails.html>)

AWS AI Practitioner Learning Path: Module on Responsible AI and Model Safety Amazon Bedrock Developer Guide: Building

NEW QUESTION # 41

A company wants to create an application to summarize meetings by using meeting audio recordings.

Select and order the correct steps from the following list to create the application. Each step should be selected one time or not at all. (Select and order THREE.)

- * Convert meeting audio recordings to meeting text files by using Amazon Polly.
- * Convert meeting audio recordings to meeting text files by using Amazon Transcribe.
- * Store meeting audio recordings in an Amazon S3 bucket.
- * Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.
- * Summarize meeting text files by using Amazon Bedrock.
- * Summarize meeting text files by using Amazon Lex.

Answer:

Explanation:

Explanation:

Step 1: Store meeting audio recordings in an Amazon S3 bucket.

Step 2: Convert meeting audio recordings to meeting text files by using Amazon Transcribe.

Step 3: Summarize meeting text files by using Amazon Bedrock.

The company wants to create an application to summarize meeting audio recordings, which requires a sequence of steps involving storage, speech-to-text conversion, and text summarization. Amazon S3 is the recommended storage service for audio files, Amazon Transcribe converts audio to text, and Amazon Bedrock provides generative AI capabilities for summarization. These three steps, in this order, create an efficient workflow for the application.

Exact Extract from AWS AI Documents:

From the Amazon Transcribe Developer Guide:

"Amazon Transcribe uses deep learning to convert audio files into text, supporting applications such as meeting transcription. Audio files can be stored in Amazon S3, and Transcribe can process them directly from an S3 bucket." From the AWS Bedrock User Guide:

"Amazon Bedrock provides foundation models that can perform text summarization, enabling developers to build applications that generate concise summaries from text data, such as meeting transcripts." (Source: Amazon Transcribe Developer Guide, Introduction to Amazon Transcribe; AWS Bedrock User Guide, Text Generation and Summarization) Detailed Explanation:

Step 1: Store meeting audio recordings in an Amazon S3 bucket. Amazon S3 is the standard storage service for audio files in AWS workflows, especially for integration with services like Amazon Transcribe. Storing the recordings in S3 allows Transcribe to access and process them efficiently. This is the first logical step.

Step 2: Convert meeting audio recordings to meeting text files by using Amazon Transcribe. Amazon Transcribe is designed for automatic speech recognition (ASR), converting audio files (stored in S3) into text.

This step is necessary to transform the meeting recordings into a format that can be summarized.

Step 3: Summarize meeting text files by using Amazon Bedrock. Amazon Bedrock provides foundation models capable of generative AI tasks like text summarization. Once the audio is converted to text, Bedrock can summarize the meeting transcripts, completing the application's requirements.

Unused Options Analysis:

Convert meeting audio recordings to meeting text files by using Amazon Polly. Amazon Polly is a text-to-speech service, not for converting audio to text. This option is incorrect and not used.

Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume. Amazon EBS is for block storage, typically used for compute instances, not for storing files for processing by services like Transcribe. S3 is the better choice, so this option is not used.

Summarize meeting text files by using Amazon Lex. Amazon Lex is for building conversational interfaces (chatbots), not for text summarization. Bedrock is the appropriate service for summarization, so this option is not used.

Hotspot Selection Analysis:

The task requires selecting and ordering three steps from the list, with each step used exactly once or not at all. The selected steps—storing in S3, converting with Transcribe, and summarizing with Bedrock—form a complete and logical workflow for the application.

References:

Amazon Transcribe Developer Guide: Introduction to Amazon Transcribe (<https://docs.aws.amazon.com/transcribe/latest/dg/what-is.html>)

AWS Bedrock User Guide: Text Generation and Summarization (<https://docs.aws.amazon.com/bedrock/latest/userguide/what-is-bedrock.html>)

AWS AI Practitioner Learning Path: Module on Speech-to-Text and Generative AI Amazon S3 User Guide: Storing Data for Processing (<https://docs.aws.amazon.com/AmazonS3/latest>)

NEW QUESTION # 42

A company wants to use language models to create an application for inference on edge devices. The inference must have the lowest latency possible.

Which solution will meet these requirements?

- A. Incorporate a centralized small language model (SLM) API for asynchronous communication with edge devices.
- B. Incorporate a centralized large language model (LLM) API for asynchronous communication with edge devices.
- C. Deploy optimized large language models (LLMs) on edge devices.
- **D. Deploy optimized small language models (SLMs) on edge devices.**

Answer: D

NEW QUESTION # 43

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