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Amazon AWS Certified AI Practitioner Sample Questions (Q63-Q68):

NEW QUESTION # 63

An airline company wants to build a conversational AI assistant to answer customer questions about flight schedules, booking, and payments. The company wants to use large language models (LLMs) and a knowledge base to create a text-based chatbot interface.

Which solution will meet these requirements with the LEAST development effort?

- A. Create a Python application by using Amazon Q Developer.
- B. Train models on Amazon SageMaker Autopilot.
- **C. Develop a Retrieval Augmented Generation (RAG) agent by using Amazon Bedrock.**
- D. Fine-tune models on Amazon SageMaker Jumpstart.

Answer: C

Explanation:

The airline company aims to build a conversational AI assistant using large language models (LLMs) and a knowledge base to create a text-based chatbot with minimal development effort. Retrieval Augmented Generation (RAG) on Amazon Bedrock is an ideal solution because it combines LLMs with a knowledge base to provide accurate, contextually relevant responses without requiring extensive model training or custom development. RAG retrieves relevant information from a knowledge base and uses an LLM to generate responses, simplifying the development process.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Retrieval Augmented Generation (RAG) in Amazon Bedrock enables developers to build conversational AI applications by combining foundation models with external knowledge bases. This approach minimizes development effort by leveraging pre-trained models and integrating them with data sources, such as FAQs or databases, to provide accurate and contextually relevant responses." (Source: AWS Bedrock User Guide, Retrieval Augmented Generation) Detailed Explanation:

Option A: Train models on Amazon SageMaker Autopilot. SageMaker Autopilot is designed for automated machine learning (AutoML) tasks like classification or regression, not for building conversational AI with LLMs and knowledge bases. It requires significant data preparation and is not optimized for chatbot development, making it less suitable.

Option B: Develop a Retrieval Augmented Generation (RAG) agent by using Amazon Bedrock. This is the correct answer. RAG on Amazon Bedrock allows the company to use pre-trained LLMs and integrate them with a knowledge base (e.g., flight schedules or FAQs) to build a chatbot with minimal effort. It avoids the need for extensive training or coding, aligning with the requirement for least development effort.

Option C: Create a Python application by using Amazon Q Developer. While Amazon Q Developer can assist with code generation, building a chatbot from scratch in Python requires significant development effort, including integrating LLMs and a knowledge base manually, which is more complex than using RAG on Bedrock.

Option D: Fine-tune models on Amazon SageMaker Jumpstart. Fine-tuning models on SageMaker Jumpstart requires preparing training data and customizing LLMs, which involves more effort than using a pre-built RAG solution on Bedrock. This option is not the least effort-intensive.

References:

AWS Bedrock User Guide: Retrieval Augmented Generation (<https://docs.aws.amazon.com/bedrock/latest/userguide/rag.html>)

AWS AI Practitioner Learning Path: Module on Generative AI and Conversational AI Amazon Bedrock Developer Guide: Building Conversational AI (<https://aws.amazon.com/bedrock/>)

NEW QUESTION # 64

A company stores millions of PDF documents in an Amazon S3 bucket. The company needs to extract the text from the PDFs, generate summaries of the text, and index the summaries for fast searching.

Which combination of AWS services will meet these requirements? (Select TWO.)

- **A. Amazon Bedrock**
- **B. Amazon Textract**
- C. Amazon Transcribe
- D. Amazon Polly
- E. Amazon Translate

Answer: A,B

Explanation:

Amazon Textract (E) automatically extracts text and structured data from scanned documents, such as PDFs.

Amazon Bedrock (B) offers access to LLMs (such as Amazon Titan or Anthropic Claude) for tasks like summarization and generating embeddings for search.

Workflow:

Amazon Textract extracts text from PDFs in S3.

Amazon Bedrock LLMs summarize the extracted text.

(Optional: Summaries can be indexed using Amazon OpenSearch or another search solution.) A (Translate) is for language translation, not extraction or summarization.

C (Transcribe) is for audio to text, not PDFs.

D (Polly) is for text-to-speech.

"Amazon Textract extracts text, forms, and tables from scanned documents... Bedrock provides generative AI models to perform summarization and other text generation tasks." (Reference: Amazon Textract, Amazon Bedrock, AWS GenAI RAG Reference)

NEW QUESTION # 65

HOTSPOT

Select the correct AI term from the following list for each statement. Each AI term should be selected one time. (Select THREE.)

* AI

* Deep learning

* ML

Simulates human problem-solving capabilities

Select... ▼
Select...
AI
Deep learning
ML

Applies data-driven learning techniques to make predictions

Select... ▼
Select...
AI
Deep learning
ML

Focuses on processing data through intricate neural networks

Select... ▼
Select...
AI
Deep learning
ML

Answer:

Explanation:

Simulates human problem-solving capabilities

Select... ▼
Select...
AI
Deep learning
ML

Applies data-driven learning techniques to make predictions

Select... ▼
Select...
AI
Deep learning
ML

Focuses on processing data through intricate neural networks

Select... ▼
Select...
AI
Deep learning
ML

Explanation:

Simulates human problem-solving capabilities

Applies data-driven learning techniques to make predictions

Focuses on processing data through intricate neural networks

Artificial Intelligence (AI) is the broad field focused on simulating human problem-solving and cognitive abilities, including reasoning, perception, and decision-making.

(Reference: AWS Certified AI Practitioner Official Study Guide)

Machine Learning (ML) is a subset of AI that uses data-driven algorithms to identify patterns and make predictions without explicit programming for each specific task.

(Reference: AWS Machine Learning Overview)

Deep learning is a subset of ML that uses neural networks with many layers (deep neural networks) to process complex data and extract high-level features.

(Reference: AWS Deep Learning on AWS)

NEW QUESTION # 66

A company is using custom models in Amazon Bedrock for a generative AI application. The company wants to use a company-managed encryption key to encrypt the model artifacts that the model customization jobs create. Which AWS service meets these requirements?

- A. AWS Secrets Manager
- **B. AWS Key Management Service (AWS KMS)**
- C. Amazon Macie
- D. Amazon Inspector

Answer: B

Explanation:

* AWS KMS provides customer-managed encryption keys (CMKs) that can be used to encrypt model artifacts and other sensitive data at rest.

* Bedrock integrates with AWS KMS to allow encryption of customized models with your own keys.

* Amazon Inspector is for vulnerability scanning, Amazon Macie for sensitive data discovery, AWS Secrets Manager for storing credentials and secrets.

Reference:

AWS Documentation - Using KMS with Amazon Bedrock

NEW QUESTION # 67

A research company implemented a chatbot by using a foundation model (FM) from Amazon Bedrock. The chatbot searches for answers to questions from a large database of research papers.

After multiple prompt engineering attempts, the company notices that the FM is performing poorly because of the complex scientific terms in the research papers.

How can the company improve the performance of the chatbot?

- A. Clean the research paper data to remove complex scientific terms.
- B. Change the FM inference parameters.
- **C. Use domain adaptation fine-tuning to adapt the FM to complex scientific terms.**
- D. Use few-shot prompting to define how the FM can answer the questions.

Answer: C

Explanation:

Domain adaptation fine-tuning involves training a foundation model (FM) further using a specific dataset that includes domain-specific terminology and content, such as scientific terms in research papers. This process allows the model to better understand and

handle complex terminology, improving its performance on specialized tasks.

* Option B (Correct): "Use domain adaptation fine-tuning to adapt the FM to complex scientific terms": This is the correct answer because fine-tuning the model on domain-specific data helps it learn and adapt to the specific language and terms used in the research papers, resulting in better performance.

* Option A: "Use few-shot prompting to define how the FM can answer the questions" is incorrect because while few-shot prompting can help in certain scenarios, it is less effective than fine-tuning for handling complex domain-specific terms.

* Option C: "Change the FM inference parameters" is incorrect because adjusting inference parameters will not resolve the issue of the model's lack of understanding of complex scientific terminology.

* Option D: "Clean the research paper data to remove complex scientific terms" is incorrect because removing the complex terms would result in the loss of important information and context, which is not a viable solution.

AWS AI Practitioner References:

* Domain Adaptation in Amazon Bedrock: AWS recommends fine-tuning models with domain-specific data to improve their performance on specialized tasks involving unique terminology.

NEW QUESTION # 68

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