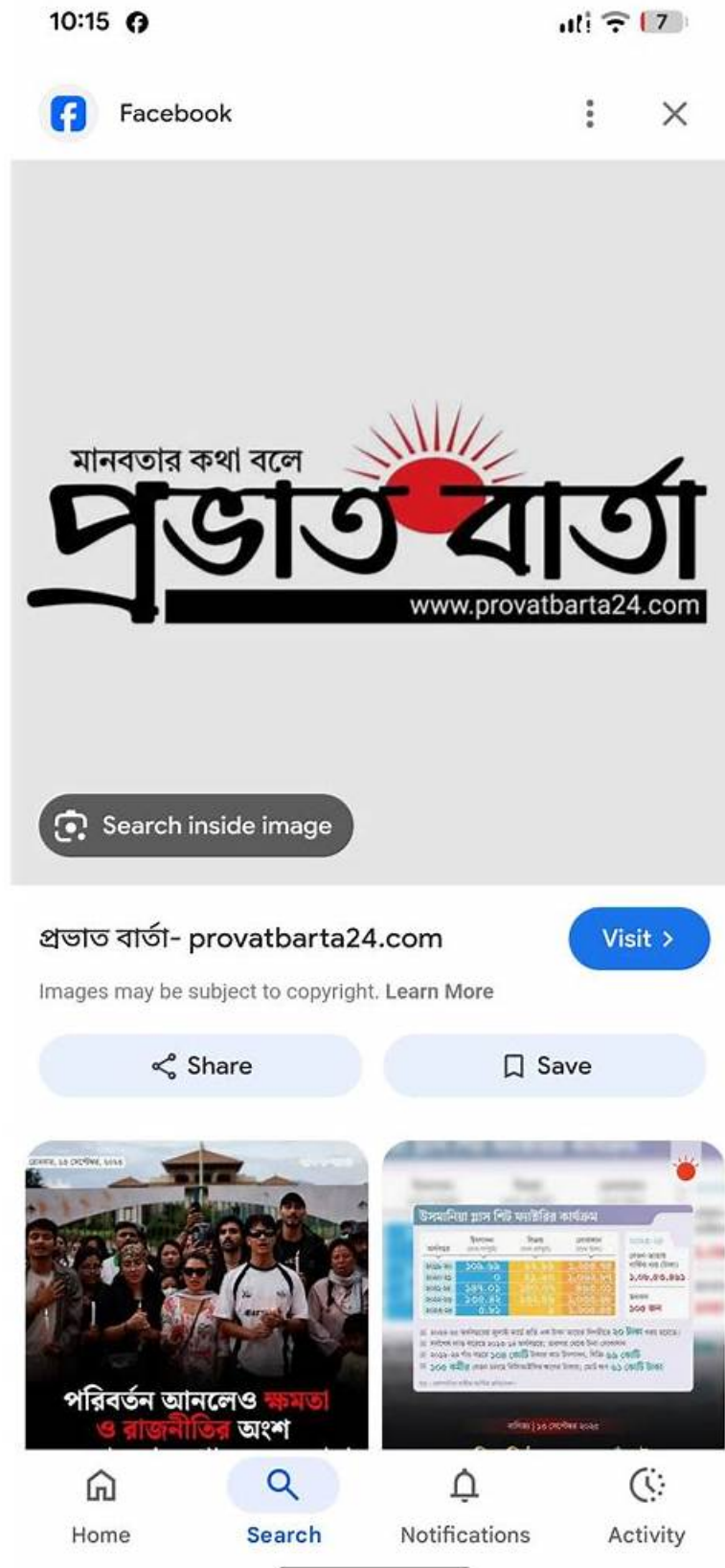


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Amazon AWS Certified AI Practitioner Sample Questions (Q12-Q17):

NEW QUESTION # 12

A company has implemented a generative AI solution to create personalized exercise routines for premium subscription users. The company offers free basic subscriptions and paid premium subscriptions.

The company wants to evaluate the AI solution's return on investment over time.

- A. The conversion rate and the customer retention rate
- B. The decrease in the number of premium customer queries and issue volume
- C. The average revenue per user (ARPU) over the past month
- D. The number of daily interactions by basic subscription users

Answer: A

NEW QUESTION # 13

A company wants to extract key insights from large policy documents to increase employee efficiency.

- A. Summarization
- B. Regression
- C. Clustering
- D. Classification

Answer: A

Explanation:

* Summarization is a natural language processing (NLP) task that condenses long documents into concise, meaningful summaries while retaining the key information.

* Regression predicts numerical values.

* Clustering groups similar items.

* Classification assigns data into predefined categories.

Reference:

AWS NLP Use Cases - Summarization

NEW QUESTION # 14

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. Set a low limit on the number of tokens the FM can produce.
- D. Use batch inferencing to process detailed responses.

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 # 15

A hospital wants to use a generative AI solution with speech-to-text functionality to help improve employee skills in dictating clinical notes.

- **A. AWS HealthScribe**
- B. Amazon Polly
- C. Amazon Rekognition
- D. Amazon Q Developer

Answer: A

Explanation:

Comprehensive and Detailed

AWS HealthScribe provides speech-to-text and medical documentation generation, specifically designed for healthcare applications.

Amazon Polly is text-to-speech, not speech-to-text.

Amazon Rekognition is computer vision.

Amazon Q Developer is a generative AI assistant for developers, not healthcare.

Reference:

AWS Documentation - AWS HealthScribe

NEW QUESTION # 16

A company wants to improve the accuracy of the responses from a generative AI application. The application uses a foundation model (FM) on Amazon Bedrock.

Which solution meets these requirements MOST cost-effectively?

- A. Fine-tune the FM.
- B. Train a new FM.
- C. Retrain the FM.
- **D. Use prompt engineering.**

Answer: D

Explanation:

The company wants to improve the accuracy of a generative AI application using a foundation model (FM) on Amazon Bedrock in the most cost-effective way. Prompt engineering involves optimizing the input prompts to guide the FM to produce more accurate responses without modifying the model itself. This approach is cost-effective because it does not require additional computational resources or training, unlike fine-tuning or retraining.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Prompt engineering is a cost-effective technique to improve the performance of foundation models. By crafting precise and context-rich prompts, users can guide the model to generate more accurate and relevant responses without the need for fine-tuning or retraining." (Source: AWS Bedrock User Guide, Prompt Engineering for Foundation Models) Detailed Option A: Fine-tune the FM. Fine-tuning involves retraining the FM on a custom dataset, which requires computational resources, time, and cost (e.g., for Amazon Bedrock fine-tuning jobs). It is not the most cost-effective solution.

Option B: Retrain the FM. Retraining an FM from scratch is highly resource-intensive and expensive, as it requires large datasets and significant compute power. This is not cost-effective.

Option C: Train a new FM. Training a new FM is the most expensive option, as it involves building a model from the ground up, requiring extensive data, compute resources, and expertise. This is not cost-effective.

Option D: Use prompt engineering. This is the correct answer. Prompt engineering adjusts the input prompts to improve the FM's responses without incurring additional compute costs, making it the most cost-effective solution for improving accuracy on Amazon Bedrock.

Reference:

AWS Bedrock User Guide: Prompt Engineering for Foundation Models

(<https://docs.aws.amazon.com/bedrock/latest/userguide/prompt-engineering.html>) AWS AI Practitioner Learning Path: Module on

Generative AI Optimization Amazon Bedrock Developer Guide: Cost Optimization for Generative AI

(<https://aws.amazon.com/bedrock/>)

NEW QUESTION # 17

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