AIF-C01 Q&As

Amazon AWS Certified AI Practitioner

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QUESTION 1

An education provider is building a question and answer application that uses a generative AI model to explain complex concepts. The education provider wants to automatically change the style of the model response depending on who is asking the question. The education provider will give the model the age range of the user who has asked the question.

Which solution meets these requirements with the LEAST implementation effort?

A. Fine-tune the model by using additional training data that is representative of the various age ranges that the application will support.

B. Add a role description to the prompt context that instructs the model of the age range that the response should target.

C. Use chain-of-thought reasoning to deduce the correct style and complexity for a response suitable for that user.

D. Summarize the response text depending on the age of the user so that younger users receive shorter responses.

Correct Answer: B

Adding a role description to the prompt context is a straightforward way to instruct the generative AI model to adjust its response style based on the user\\'s age range. This method requires minimal implementation effort as it does not involve

additional training or complex logic.

Option B (Correct): "Add a role description to the prompt context that instructs the model of the age range that the response should target":This is the correct answer because it involves the least implementation effort while effectively guiding

the model to tailor responses according to the age range. Option A:"Fine-tune the model by using additional training data" is incorrect because it requires significant effort in gathering data and retraining the model. Option C:"Use chain-ofthought reasoning" is incorrect as it involves complex reasoning that may not directly address the need to adjust response style based on age.

Option D:"Summarize the response text depending on the age of the user" is incorrect because it involves additional processing steps after generating the initial response, increasing complexity.

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References:

Prompt Engineering Techniques on AWS:AWS recommends using prompt context effectively to guide generative models in providing tailored responses based on specific user attributes.

QUESTION 2

An e-commerce company wants to build a solution to determine customer sentiments based on written customer reviews of products.

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

A. Amazon Lex

B. Amazon Comprehend

C. Amazon Polly

D. Amazon Bedrock

E. Amazon Rekognition

Correct Answer: BD

To determine customer sentiments based on written customer reviews, the company can use Amazon Comprehend and Amazon Bedrock.

QUESTION 3

A company wants to display the total sales for its top-selling products across various retail locations in the past 12 months.

Which AWS solution should the company use to automate the generation of graphs?

A. Amazon Q in Amazon EC2

B. Amazon Q Developer

C. Amazon Q in Amazon QuickSight

D. Amazon Q in AWS Chatbot

Correct Answer: C

Amazon QuickSight is a fully managed business intelligence (BI) service that allows users to create and publish interactive dashboards that include visualizations like graphs, charts, and tables. "Amazon Q" is the natural language query

feature within Amazon QuickSight. It enables users to ask questions about their data in natural language and receive visual responses such as graphs.

Option C (Correct): "Amazon Q in Amazon QuickSight":This is the correct answer because Amazon QuickSight Q is specifically designed to allow users to explore their data through natural language queries, and it can automatically generate

graphs to display sales data and other metrics. This makes it an ideal choice for the company to automate the generation of graphs showing total sales for its top- selling products across various retail locations.

Option A, B, and D:These options are incorrect:

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References:

Amazon QuickSight Qis designed to provide insights from data by using natural language queries, making it a powerful tool for generating automated graphs and visualizations directly from queried data.

Business Intelligence (BI) on AWS:AWS services such as Amazon QuickSight provide business intelligence capabilities, including automated reporting and visualization features, which are ideal for companies seeking to visualize data like

sales trends over time.

QUESTION 4

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. Deploy optimized small language models (SLMs) on edge devices.

B. Deploy optimized large language models (LLMs) on edge devices.

C. Incorporate a centralized small language model (SLM) API for asynchronous communication with edge devices.

D. Incorporate a centralized large language model (LLM) API for asynchronous communication with edge devices.

Correct Answer: A

To achieve the lowest latency possible for inference on edge devices, deploying optimized small language models (SLMs) is the most effective solution. SLMs require fewer resources and have faster inference times, making them ideal for deployment on edge devices where processing power and memory are limited. Option A (Correct): "Deploy optimized small language models (SLMs) on edge devices":This is the correct answer because SLMs provide fast inference with low latency, which is crucial for edge deployments. Option B:"Deploy optimized large language models (LLMs) on edge devices" is incorrect because LLMs are resource-intensive and may not perform well on edge devices due to their size and computational demands. Option C:"Incorporate a centralized small language model (SLM) API for asynchronous communication with edge devices" is incorrect because it introduces network latency due to the need for communication with a centralized server. Option D:"Incorporate a centralized large language model (LLM) API for asynchronous communication with edge devices" is incorrect for the same reason, with even greater latency due to the larger model size. AWS AI Practitioner References: Optimizing AI Models for Edge Devices on AWS:AWS recommends using small, optimized models for edge deployments to ensure minimal latency and efficient performance.

QUESTION 5

A company uses a foundation model (FM) from Amazon Bedrock for an AI search tool. The company wants to fine-tune the model to be more accurate by using the company\\'s data.

Which strategy will successfully fine-tune the model?

A. Provide labeled data with the prompt field and the completion field.

B. Prepare the training dataset by creating a .txt file that contains multiple lines in .csv format.

C. Purchase Provisioned Throughput for Amazon Bedrock.

D. Train the model on journals and textbooks.

Correct Answer: A

Providing labeled data with both a prompt field and a completion field is the correct strategy for fine-tuning a foundation model (FM) on Amazon Bedrock.

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