AIF-C01^{Q&As}

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QUESTION 1

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. Use few-shot prompting to define how the FM can answer the questions.

B. Use domain adaptation fine-tuning to adapt the FM to complex scientific terms.

C. Change the FM inference parameters.

D. Clean the research paper data to remove complex scientific terms.

Correct Answer: B

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.

QUESTION 2

Which option is a use case for generative AI models?

A. Improving network security by using intrusion detection systems

B. Creating photorealistic images from text descriptions for digital marketing

C. Enhancing database performance by using optimized indexing

D. Analyzing financial data to forecast stock market trends

Correct Answer: B

Generative AI models are used to create new content based on existing data. One common use case is generating photorealistic images from text descriptions, which is particularly useful in digital marketing, where visual content is key to

engaging potential customers.

Option B (Correct): "Creating photorealistic images from text descriptions for digital marketing":This is the correct answer because generative AI models, like those offered by Amazon Bedrock, can create images based on text descriptions,

making them highly valuable for generating marketing materials. Option A:"Improving network security by using intrusion detection systems" is incorrect because this is a use case for traditional machine learning models, not generative AI.

Option C:"Enhancing database performance by using optimized indexing" is incorrect as it is unrelated to generative AI.

Option D:"Analyzing financial data to forecast stock market trends" is incorrect because it typically involves predictive modeling rather than generative AI.

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References:

Use Cases for Generative AI Models on AWS:AWS highlights the use of generative AI for creative content generation, including image creation, text generation, and more, which is suited for digital marketing applications.

QUESTION 3

Which option is a benefit of ongoing pre-training when fine-tuning a foundation model (FM)?

A. Helps decrease the model\\'s complexity

B. Improves model performance over time

C. Decreases the training time requirement

D. Optimizes model inference time

Correct Answer: B

Ongoing pre-training when fine-tuning a foundation model (FM) improves model performance over time by continuously learning from new data.

QUESTION 4

A company is implementing the Amazon Titan foundation model (FM) by using Amazon Bedrock. The company needs to supplement the model by using relevant data from the company\\'s private data sources.

Which solution will meet this requirement?

A. Use a different FM

B. Choose a lower temperature value

C. Create an Amazon Bedrock knowledge base

D. Enable model invocation logging

Correct Answer: C

Creating an Amazon Bedrock knowledge base allows the integration of external or private data sources with a foundation model (FM) like Amazon Titan. This integration helps supplement the model with relevant data from the company\\'s

private data sources to enhance its responses.

Option C (Correct): "Create an Amazon Bedrock knowledge base":This is the correct answer as it enables the company to incorporate private data into the FM to improve its effectiveness.

Option A:"Use a different FM" is incorrect because it does not address the need to supplement the current model with private data.

Option B:"Choose a lower temperature value" is incorrect as it affects output randomness, not the integration of private data. Option D:"Enable model invocation logging" is incorrect because logging does not help in supplementing the model

with additional data.

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References:

Amazon Bedrock and Knowledge Integration:AWS explains how creating a knowledge base allows Amazon Bedrock to use external data sources to improve the FM\\'s relevance and accuracy.

QUESTION 5

A company needs to choose a model from Amazon Bedrock to use internally. The company must identify a model that generates responses in a style that the company\\'s employees prefer.

What should the company do to meet these requirements?

A. Evaluate the models by using built-in prompt datasets.

B. Evaluate the models by using a human workforce and custom prompt datasets.

C. Use public model leaderboards to identify the model.

D. Use the model InvocationLatency runtime metrics in Amazon CloudWatch when trying models.

Correct Answer: B

To determine which model generates responses in a style that the company\\'s employees prefer, the best approach is to use a human workforce to evaluate the models with custom prompt datasets. This method allows for subjective

evaluation based on the specific stylistic preferences of the company\\'s employees, which cannot be effectively assessed through automated methods or pre-built datasets. Option B (Correct): "Evaluate the models by using a human workforce

and custom prompt datasets":This is the correct answer as it directly involves human judgment to evaluate the style and quality of the responses, aligning with employee preferences.

Option A:"Evaluate the models by using built-in prompt datasets" is incorrect because built-in datasets may not capture the company\\'s specific stylistic requirements.

Option C:"Use public model leaderboards to identify the model" is incorrect as leaderboards typically measure model performance on standard benchmarks, not on stylistic preferences.

Option D:"Use the model InvocationLatency runtime metrics in Amazon CloudWatch" is incorrect because latency metrics do not provide any information about the style of the model\'s responses.

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References:

Model Evaluation Techniques on AWS:AWS suggests using human evaluators to assess qualitative aspects of model outputs, such as style and tone, to ensure alignment with organizational preferences

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