AIF-C01 Q&As

Amazon AWS Certified AI Practitioner

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QUESTION 1

A company is using few-shot prompting on a base model that is hosted on Amazon Bedrock. The model currently uses 10 examples in the prompt. The model is invoked once daily and is performing well. The company wants to lower the monthly cost.

Which solution will meet these requirements?

A. Customize the model by using fine-tuning.

B. Decrease the number of tokens in the prompt.

C. Increase the number of tokens in the prompt.

D. Use Provisioned Throughput.

Correct Answer: B

Decreasing the number of tokens in the prompt reduces the cost associated with using an LLM model on Amazon Bedrock, as costs are often based on the number of tokens processed by the model.

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

A company has thousands of customer support interactions per day and wants to analyze these interactions to identify frequently asked questions and develop insights.

Which AWS service can the company use to meet this requirement?

A. Amazon Lex

B. Amazon Comprehend

C. Amazon Transcribe

D. Amazon Translate

Correct Answer: B

Amazon Comprehend is the correct service to analyze customer support interactions and identify frequently asked questions and insights.

QUESTION 4

A company wants to develop a large language model (LLM) application by using Amazon Bedrock and customer data that is uploaded to Amazon S3. The company\\'s security policy states that each team can access data for only the team\\'s own customers.

Which solution will meet these requirements?

A. Create an Amazon Bedrock custom service role for each team that has access to only the team\\'s customer data.

B. Create a custom service role that has Amazon S3 access. Ask teams to specify the customer name on each Amazon Bedrock request.

C. Redact personal data in Amazon S3. Update the S3 bucket policy to allow team access to customer data.

D. Create one Amazon Bedrock role that has full Amazon S3 access. Create IAM roles for each team that have access to only each team\\'s customer folders.

Correct Answer: A

To comply with the company\\'s security policy, which restricts each team to access data for only their own customers, creating an Amazon Bedrock custom service role for each team is the correct solution.

QUESTION 5

A company is building a customer service chatbot. The company wants the chatbot to improve its responses by learning from past interactions and online resources.

Which AI learning strategy provides this self-improvement capability?

A. Supervised learning with a manually curated dataset of good responses and bad responses

B. Reinforcement learning with rewards for positive customer feedback

C. Unsupervised learning to find clusters of similar customer inquiries

D. Supervised learning with a continuously updated FAQ database

Correct Answer: B

Reinforcement learning allows a model to learn and improve over time based on feedback from its environment. In this case, the chatbot can improve its responses by being rewarded for positive customer feedback, which aligns well with the

goal of self- improvement based on past interactions and new information. Option B (Correct): "Reinforcement learning with rewards for positive customer feedback":This is the correct answer as reinforcement learning enables the chatbot to

learn from feedback and adapt its behavior accordingly, providing self- improvement capabilities.

Option A:"Supervised learning with a manually curated dataset" is incorrect because it does not support continuous learning from new interactions. Option C:"Unsupervised learning to find clusters of similar customer inquiries" is incorrect

because unsupervised learning does not provide a mechanism for improving responses based on feedback.

Option D:"Supervised learning with a continuously updated FAQ database" is incorrect because it still relies on manually curated data rather than self- improvement from feedback.

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References:

Reinforcement Learning on AWS:AWS provides reinforcement learning frameworks that can be used to train models to improve their performance based on feedback.