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## Amazon AWS Certified AI Practitioner Sample Questions (Q296-Q301):

### NEW QUESTION # 296

A company wants to use large language models (LLMs) with Amazon Bedrock to develop a chat interface for the company's product manuals. The manuals are stored as PDF files.

Which solution meets these requirements MOST cost-effectively?

- A. Use prompt engineering to add one PDF file as context to the user prompt when the prompt is submitted to Amazon Bedrock.
- B. Use all the PDF documents to fine-tune a model with Amazon Bedrock. Use the fine-tuned model to process user prompts.
- C. Use prompt engineering to add all the PDF files as context to the user prompt when the prompt is submitted to Amazon Bedrock.
- D. Upload PDF documents to an Amazon Bedrock knowledge base. Use the knowledge base to provide context when users submit prompts to Amazon Bedrock.

**Answer: A**

Explanation:

Using Amazon Bedrock with large language models (LLMs) allows for efficient utilization of AI to answer queries based on context

provided in product manuals. To achieve this cost-effectively, the company should avoid unnecessary use of resources.

Option A (Correct): "Use prompt engineering to add one PDF file as context to the user prompt when the prompt is submitted to Amazon Bedrock": This is the most cost-effective solution. By using prompt engineering, only the relevant content from one PDF file is added as context to each query. This approach minimizes the amount of data processed, which helps in reducing costs associated with LLMs' computational requirements.

Option B: "Use prompt engineering to add all the PDF files as context to the user prompt when the prompt is submitted to Amazon Bedrock" is incorrect. Including all PDF files would increase costs significantly due to the large context size processed by the model.

Option C: "Use all the PDF documents to fine-tune a model with Amazon Bedrock" is incorrect. Fine-tuning a model is more expensive than using prompt engineering, especially if done for multiple documents.

Option D: "Upload PDF documents to an Amazon Bedrock knowledge base" is incorrect because Amazon Bedrock does not have a built-in knowledge base feature for directly managing and querying PDF documents.

AWS AI Practitioner Reference:

Prompt Engineering for Cost-Effective AI: AWS emphasizes the importance of using prompt engineering to minimize costs when interacting with LLMs. By carefully selecting relevant context, users can reduce the amount of data processed and save on expenses.

### NEW QUESTION # 297

A company needs to apply numerical transformations to a set of images to transpose and rotate the images.

- A. Use an Amazon Bedrock large language model (LLM) with a high temperature.
- B. Create a deep neural network by using the images as input.
- **C. Create an AWS Lambda function to perform the transformations.**
- D. Use AWS Glue Data Quality to make corrections to each image.

**Answer: C**

### NEW QUESTION # 298

What does an F1 score measure in the context of foundation model (FM) performance?

- A. Model speed in generating responses.
- **B. Model precision and recall.**
- C. Energy efficiency of the model's computations.
- D. Financial cost of operating the model.

**Answer: B**

Explanation:

The F1 score is the harmonic mean of precision and recall, making it a balanced metric for evaluating model performance when there is an imbalance between false positives and false negatives. Speed, cost, and energy efficiency are unrelated to the F1 score.

Reference: AWS Foundation Models Guide.

### NEW QUESTION # 299

A company wants to use a large language model (LLM) on Amazon Bedrock for sentiment analysis. The company needs the LLM to produce more consistent responses to the same input prompt.

Which adjustment to an inference parameter should the company make to meet these requirements?

- A. Increase the temperature value
- **B. Decrease the temperature value**
- C. Increase the maximum generation length
- D. Decrease the length of output tokens

**Answer: B**

Explanation:

The temperature parameter in a large language model (LLM) controls the randomness of the model's output. A lower temperature value makes the output more deterministic and consistent, meaning that the model is less likely to produce different results for the same input prompt.

Option A (Correct): "Decrease the temperature value": This is the correct answer because lowering the temperature reduces the randomness of the responses, leading to more consistent outputs for the same input.

Option B: "Increase the temperature value" is incorrect because it would make the output more random and less consistent.  
Option C: "Decrease the length of output tokens" is incorrect as it does not directly affect the consistency of the responses.  
Option D: "Increase the maximum generation length" is incorrect because this adjustment affects the output length, not the consistency of the model's responses.

AWS AI Practitioner Reference:

Understanding Temperature in Generative AI Models: AWS documentation explains that adjusting the temperature parameter affects the model's output randomness, with lower values providing more consistent outputs.

### NEW QUESTION # 300

A company wants to develop an AI application to help its employees check open customer claims, identify details for a specific claim, and access documents for a claim. Which solution meets these requirements?

- A. Use Agents for Amazon Bedrock with Amazon Bedrock knowledge bases to build the application.
- B. Use Amazon SageMaker AI to build the application by training a new ML model.
- C. Use Amazon Personalize with Amazon Bedrock knowledge bases to build the application.
- D. Use Agents for Amazon Bedrock with Amazon Fraud Detector to build the application.

**Answer: A**

Explanation:

The company wants an AI application to help employees check open customer claims, identify claim details, and access related documents. Agents for Amazon Bedrock can automate tasks by interacting with external systems, while Amazon Bedrock knowledge bases provide a repository of information (e.g., claim details and documents) that the agent can query to respond to employee requests, making this the best solution.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Agents for Amazon Bedrock enable developers to build applications that can perform tasks by interacting with external systems and data sources. When paired with Amazon Bedrock knowledge bases, agents can access structured and unstructured data, such as documents or databases, to provide detailed responses for use cases like customer service or claims management." (Source: AWS Bedrock User Guide, Agents and Knowledge Bases) Detailed Option A: Use Agents for Amazon Bedrock with Amazon Fraud Detector to build the application. Amazon Fraud Detector is for detecting fraudulent activities, not for managing customer claims or accessing documents. This option is irrelevant.

Option B: Use Agents for Amazon Bedrock with Amazon Bedrock knowledge bases to build the application. This is the correct answer. Agents for Amazon Bedrock can interact with knowledge bases to retrieve claim details and documents, enabling employees to check open claims and access relevant information.

Option C: Use Amazon Personalize with Amazon Bedrock knowledge bases to build the application. Amazon Personalize is for building recommendation systems, not for retrieving claim details or documents. This option does not meet the requirements.

Option D: Use Amazon SageMaker AI to build the application by training a new ML model. Training a new ML model on SageMaker is unnecessary and complex for this use case, as the task can be efficiently handled by Agents and knowledge bases on Amazon Bedrock.

Reference:

AWS Bedrock User Guide: Agents and Knowledge Bases (<https://docs.aws.amazon.com/bedrock/latest/userguide/agents.html>)

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

### NEW QUESTION # 301

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