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QUESTION 1

A company wants to use a pre-trained generative AI model to generate content for its marketing campaigns. The company needs to ensure that the generated content aligns with the company's brand voice and messaging requirements.

Which solution meets these requirements?

- A. Optimize the model's architecture and hyperparameters to improve the model's overall performance.
- B. Increase the model's complexity by adding more layers to the model's architecture.
- C. Create effective prompts that provide clear instructions and context to guide the model's generation.
- D. Select a large, diverse dataset to pre-train a new generative model.

Correct Answer: C

Creating effective prompts is the best solution to ensure that the content generated by a pre-trained generative AI model aligns with the company's brand voice and messaging requirements.

QUESTION 2

A company has built a solution by using generative AI. The solution uses large language models (LLMs) to translate training manuals from English into other languages. The company wants to evaluate the accuracy of the solution by examining the text generated for the manuals.

Which model evaluation strategy meets these requirements?

- A. Bilingual Evaluation Understudy (BLEU)
- B. Root mean squared error (RMSE)
- C. Recall-Oriented Understudy for Gisting Evaluation (ROUGE)
- D. F1 score

Correct Answer: A

BLEU (Bilingual Evaluation Understudy) is a metric used to evaluate the accuracy of machine-generated translations by comparing them against reference translations. It is commonly used for translation tasks to measure how close the

generated output is to professional human translations.

Option A (Correct): "Bilingual Evaluation Understudy (BLEU)": This is the correct answer because BLEU is specifically designed to evaluate the quality of translations, making it suitable for the company's use case. Option B: "Root mean

squared error (RMSE)" is incorrect because RMSE is used for regression tasks to measure prediction errors, not translation quality. Option C: "Recall-Oriented Understudy for Gisting Evaluation (ROUGE)" is incorrect as it is used to evaluate

text summarization, not translation. Option D: "F1 score" is incorrect because it is typically used for classification tasks, not for evaluating translation accuracy.



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References:

Model Evaluation Metrics on AWS: AWS supports various metrics like BLEU for specific use cases, such as evaluating machine translation models.

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

Which strategy evaluates the accuracy of a foundation model (FM) that is used in image classification tasks?

- A. Calculate the total cost of resources used by the model.
- B. Measure the model's accuracy against a predefined benchmark dataset.
- C. Count the number of layers in the neural network.
- D. Assess the color accuracy of images processed by the model.

Correct Answer: B

Measuring the model's accuracy against a predefined benchmark dataset is the correct strategy to evaluate the accuracy of a foundation model (FM) used in image classification tasks.

QUESTION 5

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-of-thought 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.

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