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Databricks Certified Generative AI Engineer Associate Sample Questions (Q56-Q61):

NEW QUESTION # 56

A Generative AI Engineer has built an LLM-based system that will automatically translate user text between two languages. They now want to benchmark multiple LLM's on this task and pick the best one. They have an evaluation set with known high quality translation examples. They want to evaluate each LLM using the evaluation set with a performant metric. Which metric should they choose for this evaluation?

- A. BLEU metric
- B. RECALL metric
- C. ROUGE metric
- D. NDCG metric

Answer: A

Explanation:

The task is to benchmark LLMs for text translation using an evaluation set with known high-quality examples, requiring a performant metric. Let's evaluate the options.

* Option A: ROUGE metric

* ROUGE (Recall-Oriented Understudy for Gisting Evaluation) measures overlap between generated and reference texts, primarily for summarization. It's less suited for translation, where precision and word order matter more.

* Databricks Reference: "ROUGE is commonly used for summarization, not translation evaluation" ("Generative AI Cookbook," 2023).

* Option B: BLEU metric

* BLEU (Bilingual Evaluation Understudy) evaluates translation quality by comparing n-gram overlap with reference translations, accounting for precision and brevity. It's widely used, performant, and appropriate for this task.

* Databricks Reference: "BLEU is a standard metric for evaluating machine translation, balancing accuracy and efficiency" ("Building LLM Applications with Databricks").

* Option C: NDCG metric

* NDCG (Normalized Discounted Cumulative Gain) assesses ranking quality, not text generation.

It's irrelevant for translation evaluation.

* Databricks Reference: "NDCG is suited for ranking tasks, not generative output scoring" ("Databricks Generative AI Engineer Guide").

* Option D: RECALL metric

* Recall measures retrieved relevant items but doesn't evaluate translation quality (e.g., fluency, correctness). It's incomplete for this use case.

* Databricks Reference: No specific extract, but recall alone lacks the granularity of BLEU for text generation tasks.

Conclusion: Option B (BLEU) is the best metric for translation evaluation, offering a performant and standard approach, as endorsed by Databricks' guidance on generative tasks.

NEW QUESTION # 57

When developing an LLM application, it's crucial to ensure that the data used for training the model complies with licensing requirements to avoid legal risks.

Which action is NOT appropriate to avoid legal risks?

- A. Reach out to the data curators directly before you have started using the trained model to let them know.
- B. Use any available data you personally created which is completely original and you can decide what license to use.
- C. Only use data explicitly labeled with an open license and ensure the license terms are followed.

- **D. Reach out to the data curators directly after you have started using the trained model to let them know.**

Answer: D

Explanation:

* Problem Context: When using data to train a model, it's essential to ensure compliance with licensing to avoid legal risks. Legal issues can arise from using data without permission, especially when it comes from third-party sources.

* Explanation of Options:

* Option A: Reaching out to data curators before using the data is an appropriate action. This allows you to ensure you have permission or understand the licensing terms before starting to use the data in your model.

* Option B: Using original data that you personally created is always a safe option. Since you have full ownership over the data, there are no legal risks, as you control the licensing.

* Option C: Using data that is explicitly labeled with an open license and adhering to the license terms is a correct and recommended approach. This ensures compliance with legal requirements.

* Option D: Reaching out to the data curators after you have already started using the trained model is not appropriate. If you've already used the data without understanding its licensing terms, you may have already violated the terms of use, which could lead to legal complications. It's essential to clarify the licensing terms before using the data, not after.

Thus, Option D is not appropriate because it could expose you to legal risks by using the data without first obtaining the proper licensing permissions.

NEW QUESTION # 58

A Generative AI Engineer is tasked with deploying an application that takes advantage of a custom MLflow Pyfunc model to return some interim results.

How should they configure the endpoint to pass the secrets and credentials?

- A. Pass the secrets in plain text
- B. Use `spark.conf.set()`
- C. Pass variables using the Databricks Feature Store API
- **D. Add credentials using environment variables**

Answer: D

Explanation:

Context: Deploying an application that uses an MLflow Pyfunc model involves managing sensitive information such as secrets and credentials securely.

Explanation of Options:

* Option A: Use `spark.conf.set()`: While this method can pass configurations within Spark jobs, using it for secrets is not recommended because it may expose them in logs or Spark UI.

* Option B: Pass variables using the Databricks Feature Store API: The Feature Store API is designed for managing features for machine learning, not for handling secrets or credentials.

* Option C: Add credentials using environment variables: This is a common practice for managing credentials in a secure manner, as environment variables can be accessed securely by applications without exposing them in the codebase.

* Option D: Pass the secrets in plain text: This is highly insecure and not recommended, as it exposes sensitive information directly in the code.

Therefore, Option C is the best method for securely passing secrets and credentials to an application, protecting them from exposure.

NEW QUESTION # 59

A Generative AI Engineer is developing a chatbot designed to assist users with insurance-related queries. The chatbot is built on a large language model (LLM) and is conversational. However, to maintain the chatbot's focus and to comply with company policy, it must not provide responses to questions about politics. Instead, when presented with political inquiries, the chatbot should respond with a standard message:

"Sorry, I cannot answer that. I am a chatbot that can only answer questions around insurance." Which framework type should be implemented to solve this?

- A. Compliance Guardrail
- B. Security Guardrail
- C. Contextual Guardrail
- **D. Safety Guardrail**

Answer: D

Explanation:

In this scenario, the chatbot must avoid answering political questions and instead provide a standard message for such inquiries. Implementing a Safety Guardrail is the appropriate solution for this:

- * What is a Safety Guardrail? Safety guardrails are mechanisms implemented in Generative AI systems to ensure the model behaves within specific bounds. In this case, it ensures the chatbot does not answer politically sensitive or irrelevant questions, which aligns with the business rules.
- * Preventing Responses to Political Questions: The Safety Guardrail is programmed to detect specific types of inquiries (like political questions) and prevent the model from generating responses outside its intended domain. When such queries are detected, the guardrail intervenes and provides a pre-defined response: "Sorry, I cannot answer that. I am a chatbot that can only answer questions around insurance."
- * How It Works in Practice: The LLM system can include a classification layer or trigger rules based on specific keywords related to politics. When such terms are detected, the Safety Guardrail blocks the normal generation flow and responds with the fixed message.
- * Why Other Options Are Less Suitable:
 - * B (Security Guardrail): This is more focused on protecting the system from security vulnerabilities or data breaches, not controlling the conversational focus.
 - * C (Contextual Guardrail): While context guardrails can limit responses based on context, safety guardrails are specifically about ensuring the chatbot stays within a safe conversational scope.
 - * D (Compliance Guardrail): Compliance guardrails are often related to legal and regulatory adherence, which is not directly relevant here.

Therefore, a Safety Guardrail is the right framework to ensure the chatbot only answers insurance-related queries and avoids political discussions.

NEW QUESTION # 60

What is an effective method to preprocess prompts using custom code before sending them to an LLM?

- A. Rather than preprocessing prompts, it's more effective to postprocess the LLM outputs to align the outputs to desired outcomes
- B. It is better not to introduce custom code to preprocess prompts as the LLM has not been trained with examples of the preprocessed prompts
- **C. Write a MLflow PyFunc model that has a separate function to process the prompts**
- D. Directly modify the LLM's internal architecture to include preprocessing steps

Answer: C

Explanation:

The most effective way to preprocess prompts using custom code is to write a custom model, such as an MLflow PyFunc model. Here's a breakdown of why this is the correct approach:

- * MLflow PyFunc Models: MLflow is a widely used platform for managing the machine learning lifecycle, including experimentation, reproducibility, and deployment. A PyFunc model is a generic Python function model that can implement custom logic, which includes preprocessing prompts.
- * Preprocessing Prompts: Preprocessing could include various tasks like cleaning up the user input, formatting it according to specific rules, or augmenting it with additional context before passing it to the LLM. Writing this preprocessing as part of a PyFunc model allows the custom code to be managed, tested, and deployed easily.
- * Modular and Reusable: By separating the preprocessing logic into a PyFunc model, the system becomes modular, making it easier to maintain and update without needing to modify the core LLM or retrain it.
- * Why Other Options Are Less Suitable:
 - * A (Modify LLM's Internal Architecture): Directly modifying the LLM's architecture is highly impractical and can disrupt the model's performance. LLMs are typically treated as black-box models for tasks like prompt processing.
 - * B (Avoid Custom Code): While it's true that LLMs haven't been explicitly trained with preprocessed prompts, preprocessing can still improve clarity and alignment with desired input formats without confusing the model.
 - * C (Postprocessing Outputs): While postprocessing the output can be useful, it doesn't address the need for clean and well-formatted inputs, which directly affect the quality of the model's responses.

Thus, using an MLflow PyFunc model allows for flexible and controlled preprocessing of prompts in a scalable way, making it the most effective method.

NEW QUESTION # 61

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