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Databricks Generative AI Engineer Associate Exam

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Databricks Databricks-Generative-AI-Engineer-Associate Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Application Development: In this topic, Generative AI Engineers learn about tools needed to extract data, Langchain• similar tools, and assessing responses to identify common issues. Moreover, the topic includes questions about adjusting an LLM's response, LLM guardrails, and the best LLM based on the attributes of the application.
Topic 2	<ul style="list-style-type: none">• Assembling and Deploying Applications: In this topic, Generative AI Engineers get knowledge about coding a chain using a pyfunc mode, coding a simple chain using langchain, and coding a simple chain according to requirements. Additionally, the topic focuses on basic elements needed to create a RAG application. Lastly, the topic addresses sub-topics about registering the model to Unity Catalog using MLflow.
Topic 3	<ul style="list-style-type: none">• Design Applications: The topic focuses on designing a prompt that elicits a specifically formatted response. It also focuses on selecting model tasks to accomplish a given business requirement. Lastly, the topic covers chain components for a desired model input and output.

Databricks Certified Generative AI Engineer Associate Sample Questions (Q21-Q26):

NEW QUESTION # 21

A Generative AI Engineer is building an LLM to generate article summaries in the form of a type of poem, such as a haiku, given the article content. However, the initial output from the LLM does not match the desired tone or style.

Which approach will NOT improve the LLM's response to achieve the desired response?

- A. Fine-tune the LLM on a dataset of desired tone and style
- B. Use a neutralizer to normalize the tone and style of the underlying documents
- C. Provide the LLM with a prompt that explicitly instructs it to generate text in the desired tone and style
- D. Include few-shot examples in the prompt to the LLM

Answer: B

Explanation:

The task at hand is to improve the LLM's ability to generate poem-like article summaries with the desired tone and style. Using a neutralizer to normalize the tone and style of the underlying documents (option B) will not help improve the LLM's ability to generate the desired poetic style. Here's why:

* Neutralizing Underlying Documents: A neutralizer aims to reduce or standardize the tone of input data. However, this contradicts the goal, which is to generate text with a specific tone and style (like haikus). Neutralizing the source documents will strip away the richness of the content, making it harder for the LLM to generate creative, stylistic outputs like poems.

* Why Other Options Improve Results:

* A (Explicit Instructions in the Prompt): Directly instructing the LLM to generate text in a specific tone and style helps align the output with the desired format (e.g., haikus). This is a common and effective technique in prompt engineering.

* C (Few-shot Examples): Providing examples of the desired output format helps the LLM understand the expected tone and

structure, making it easier to generate similar outputs.

* D (Fine-tuning the LLM): Fine-tuning the model on a dataset that contains examples of the desired tone and style is a powerful way to improve the model's ability to generate outputs that match the target format.

Therefore, using a neutralizer (option B) is not an effective method for achieving the goal of generating stylized poetic summaries.

NEW QUESTION # 22

A Generative AI Engineer is developing a patient-facing healthcare-focused chatbot. If the patient's question is not a medical emergency, the chatbot should solicit more information from the patient to pass to the doctor's office and suggest a few relevant pre-approved medical articles for reading. If the patient's question is urgent, direct the patient to calling their local emergency services.

Given the following user input:

"I have been experiencing severe headaches and dizziness for the past two days." Which response is most appropriate for the chatbot to generate?

- A. Headaches can be tough. Hope you feel better soon!
- B. Here are a few relevant articles for your browsing. Let me know if you have questions after reading them.
- C. **Please call your local emergency services.**
- D. Please provide your age, recent activities, and any other symptoms you have noticed along with your headaches and dizziness.

Answer: C

Explanation:

* Problem Context: The task is to design responses for a healthcare-focused chatbot that appropriately addresses the urgency of a patient's symptoms.

* Explanation of Options:

* Option A: Suggesting articles might be suitable for less urgent inquiries but is inappropriate for symptoms that could indicate a serious condition.

* Option B: Given the description of severe symptoms like headaches and dizziness, directing the patient to emergency services is prudent. This aligns with medical guidelines that recommend immediate professional attention for such severe symptoms.

* Option C: Offering well-wishes does not address the potential seriousness of the symptoms and lacks appropriate action.

* Option D: While gathering more information is part of a detailed assessment, the immediate need here suggests a more urgent response.

Given the potential severity of the described symptoms, Option B is the most appropriate, ensuring the chatbot directs patients to seek urgent care when needed, potentially saving lives.

NEW QUESTION # 23

A Generative AI Engineer is building an LLM-based application that has an important transcription (speech-to-text) task. Speed is essential for the success of the application. Which open Generative AI models should be used?

- A. Llama-2-70b-chat-hf
- B. MPT-30B-Instruct
- C. **whisper-large-v3 (1.6B)**
- D. DBRX

Answer: C

Explanation:

The task requires an open generative AI model for a transcription (speech-to-text) task where speed is essential. Let's assess the options based on their suitability for transcription and performance characteristics, referencing Databricks' approach to model selection.

* Option A: Llama-2-70b-chat-hf

* Llama-2 is a text-based LLM optimized for chat and text generation, not speech-to-text. It lacks transcription capabilities.

* Databricks Reference: "Llama models are designed for natural language generation, not audio processing" ("Databricks Model Catalog").

* Option B: MPT-30B-Instruct

* MPT-30B is another text-based LLM focused on instruction-following and text generation, not transcription. It's irrelevant for speech-to-text tasks.

* Databricks Reference: No specific mention, but MPT is categorized under text LLMs in Databricks' ecosystem, not audio models.

* Option C: DBRX

* DBRX, developed by Databricks, is a powerful text-based LLM for general-purpose generation.

It doesn't natively support speech-to-text and isn't optimized for transcription.

* Databricks Reference: "DBRX excels at text generation and reasoning tasks" ("Introducing DBRX," 2023)-no mention of audio capabilities.

* Option D: whisper-large-v3 (1.6B)

* Whisper, developed by OpenAI, is an open-source model specifically designed for speech-to-text transcription. The "large-v3" variant (1.6 billion parameters) balances accuracy and efficiency, with optimizations for speed via quantization or deployment on GPUs-key for the application's requirements.

* Databricks Reference: "For audio transcription, models like Whisper are recommended for their speed and accuracy" ("Generative AI Cookbook," 2023). Databricks supports Whisper integration in its MLflow or Lakehouse workflows.

Conclusion: Only D. whisper-large-v3 is a speech-to-text model, making it the sole suitable choice. Its design prioritizes transcription, and its efficiency (e.g., via optimized inference) meets the speed requirement, aligning with Databricks' model deployment best practices.

NEW QUESTION # 24

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

- A. Write a MLflow PyFunc model that has a separate function to process the prompts
- 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. Rather than preprocessing prompts, it's more effective to postprocess the LLM outputs to align the outputs to desired outcomes
- D. Directly modify the LLM's internal architecture to include preprocessing steps

Answer: A

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 # 25

A Generative AI Engineer is designing an LLM-powered live sports commentary platform. The platform provides real-time updates and LLM-generated analyses for any users who would like to have live summaries, rather than reading a series of potentially outdated news articles.

Which tool below will give the platform access to real-time data for generating game analyses based on the latest game scores?

- A. AutoML

- B. Foundation Model APIs
- C. Feature Serving
- D. DatabricksIQ

Answer: C

Explanation:

* Problem Context: The engineer is developing an LLM-powered live sports commentary platform that needs to provide real-time updates and analyses based on the latest game scores. The critical requirement here is the capability to access and integrate real-time data efficiently with the platform for immediate analysis and reporting.

* Explanation of Options:

* Option A: DatabricksIQ: While DatabricksIQ offers integration and data processing capabilities, it is more aligned with data analytics rather than real-time feature serving, which is crucial for immediate updates necessary in a live sports commentary context.

* Option B: Foundation Model APIs: These APIs facilitate interactions with pre-trained models and could be part of the solution, but on their own, they do not provide mechanisms to access real-time game scores.

* Option C: Feature Serving: This is the correct answer as feature serving specifically refers to the real-time provision of data (features) to models for prediction. This would be essential for an LLM that generates analyses based on live game data, ensuring that the commentary is current and based on the latest events in the sport.

* Option D: AutoML: This tool automates the process of applying machine learning models to real-world problems, but it does not directly provide real-time data access, which is a critical requirement for the platform.

Thus, Option C (Feature Serving) is the most suitable tool for the platform as it directly supports the real-time data needs of an LLM-powered sports commentary system, ensuring that the analyses and updates are based on the latest available information.

NEW QUESTION # 26

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