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

| Topic | Details |
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|---------|---|
| 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"> • Data Preparation: Generative AI Engineers covers a chunking strategy for a given document structure and model constraints. The topic also focuses on filter extraneous content in source documents. Lastly, Generative AI Engineers also learn about extracting document content from provided source data and format. |
| Topic 3 | <ul style="list-style-type: none"> • Governance: Generative AI Engineers who take the exam get knowledge about masking techniques, guardrail techniques, and legal • licensing requirements in this topic. |
| Topic 4 | <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. |

Databricks Certified Generative AI Engineer Associate Sample Questions (Q27-Q32):

NEW QUESTION # 27

A Generative AI Engineer is building a RAG application that will rely on context retrieved from source documents that are currently in PDF format. These PDFs can contain both text and images. They want to develop a solution using the least amount of lines of code.

Which Python package should be used to extract the text from the source documents?

- A. numpy
- B. unstructured
- C. flask
- D. beautifulsoup

Answer: B

Explanation:

* Problem Context: The engineer needs to extract text from PDF documents, which may contain both text and images. The goal is to find a Python package that simplifies this task using the least amount of code.

* Explanation of Options:

* Option A: flask: Flask is a web framework for Python, not suitable for processing or extracting content from PDFs.

* Option B: beautifulsoup: Beautiful Soup is designed for parsing HTML and XML documents, not PDFs.

* Option C: unstructured: This Python package is specifically designed to work with unstructured data, including extracting text from PDFs. It provides functionalities to handle various types of content in documents with minimal coding, making it ideal for the task.

* Option D: numpy: Numpy is a powerful library for numerical computing in Python and does not provide any tools for text extraction from PDFs.

Given the requirement, Option C (unstructured) is the most appropriate as it directly addresses the need to efficiently extract text from PDF documents with minimal code.

NEW QUESTION # 28

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. Include few-shot examples in the prompt to the LLM
- B. Use a neutralizer to normalize the tone and style of the underlying documents

- C. Fine-tune the LLM on a dataset of desired tone and style
- D. Provide the LLM with a prompt that explicitly instructs it to generate text in the desired tone and style

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 # 29

A Generative AI Engineer has developed an LLM application to answer questions about internal company policies. The Generative AI Engineer must ensure that the application doesn't hallucinate or leak confidential data.

Which approach should NOT be used to mitigate hallucination or confidential data leakage?

- **A. Fine-tune the model on your data, hoping it will learn what is appropriate and not**
- B. Use a strong system prompt to ensure the model aligns with your needs.
- C. Add guardrails to filter outputs from the LLM before it is shown to the user
- D. Limit the data available based on the user's access level

Answer: A

Explanation:

When addressing concerns of hallucination and data leakage in an LLM application for internal company policies, fine-tuning the model on internal data with the hope it learns data boundaries can be problematic:

* **Risk of Data Leakage:** Fine-tuning on sensitive or confidential data does not guarantee that the model will not inadvertently include or reference this data in its outputs. There's a risk of overfitting to the specific data details, which might lead to unintended leakage.

* **Hallucination:** Fine-tuning does not necessarily mitigate the model's tendency to hallucinate; in fact, it might exacerbate it if the training data is not comprehensive or representative of all potential queries.

Better Approaches:

* **A, C, and D** involve setting up operational safeguards and constraints that directly address data leakage and ensure responses are aligned with specific user needs and security levels.

Fine-tuning lacks the targeted control needed for such sensitive applications and can introduce new risks, making it an unsuitable approach in this context.

NEW QUESTION # 30

A Generative AI Engineer is working with a retail company that wants to enhance its customer experience by automatically handling common customer inquiries. They are working on an LLM-powered AI solution that should improve response times while maintaining a personalized interaction. They want to define the appropriate input and LLM task to do this.

Which input/output pair will do this?

- A. Input: Customer reviews; Output Group the reviews by users and aggregate per-user average rating, then respond
- B. Input: Customer reviews; Output Classify review sentiment
- C. Input: Customer service chat logs; Output Group the chat logs by users, followed by summarizing each user's interactions, then respond
- **D. Input: Customer service chat logs; Output: Find the answers to similar questions and respond with a summary**

Answer: D

Explanation:

The task described in the question involves enhancing customer experience by automatically handling common customer inquiries using an LLM-powered AI solution. This requires the system to process input data (customer inquiries) and generate personalized, relevant responses efficiently. Let's evaluate the options step-by-step in the context of Databricks Generative AI Engineer principles, which emphasize leveraging LLMs for tasks like question answering, summarization, and retrieval-augmented generation (RAG).

* Option A: Input: Customer reviews; Output: Group the reviews by users and aggregate per-user average rating, then respond

* This option focuses on analyzing customer reviews to compute average ratings per user. While this might be useful for sentiment analysis or user profiling, it does not directly address the goal of handling common customer inquiries or improving response times for personalized interactions. Customer reviews are typically feedback data, not real-time inquiries requiring immediate responses.

* Databricks Reference: Databricks documentation on LLMs (e.g., "Building LLM Applications with Databricks") emphasizes that LLMs excel at tasks like question answering and conversational responses, not just aggregation or statistical analysis of reviews.

* Option B: Input: Customer service chat logs; Output: Group the chat logs by users, followed by summarizing each user's interactions, then respond

* This option uses chat logs as input, which aligns with customer service scenarios. However, the output-grouping by users and summarizing interactions-focuses on user-specific summaries rather than directly addressing inquiries. While summarization is an LLM capability, this approach lacks the specificity of finding answers to common questions, which is central to the problem.

* Databricks Reference: Per Databricks' "Generative AI Cookbook," LLMs can summarize text, but for customer service, the emphasis is on retrieval and response generation (e.g., RAG workflows) rather than user interaction summaries alone.

* Option C: Input: Customer service chat logs; Output: Find the answers to similar questions and respond with a summary

* This option uses chat logs (real customer inquiries) as input and tasks the LLM with identifying answers to similar questions, then providing a summarized response. This directly aligns with the goal of handling common inquiries efficiently while maintaining personalization (by referencing past interactions or similar cases). It leverages LLM capabilities like semantic search, retrieval, and response generation, which are core to Databricks' LLM workflows.

* Databricks Reference: From Databricks documentation ("Building LLM-Powered Applications," 2023), an exact extract states:"For customer support use cases, LLMs can be used to retrieve relevant answers from historical data like chat logs and generate concise, contextually appropriate responses."This matches Option C's approach of finding answers and summarizing them

* Option D: Input: Customer reviews; Output: Classify review sentiment

* This option focuses on sentiment classification of reviews, which is a valid LLM task but unrelated to handling customer inquiries or improving response times in a conversational context.

It's more suited for feedback analysis than real-time customer service.

* Databricks Reference: Databricks' "Generative AI Engineer Guide" notes that sentiment analysis is a common LLM task, but it's not highlighted for real-time conversational applications like customer support.

Conclusion: Option C is the best fit because it uses relevant input (chat logs) and defines an LLM task (finding answers and summarizing) that meets the requirements of improving response times and maintaining personalized interaction. This aligns with Databricks' recommended practices for LLM-powered customer service solutions, such as retrieval-augmented generation (RAG) workflows.

NEW QUESTION # 31

A Generative AI Engineer is designing a chatbot for a gaming company that aims to engage users on its platform while its users play online video games.

Which metric would help them increase user engagement and retention for their platform?

- A. Repetition of responses
- B. Randomness
- C. Diversity of responses
- D. Lack of relevance

Answer: C

Explanation:

In the context of designing a chatbot to engage users on a gaming platform, diversity of responses (option C) is a key metric to increase user engagement and retention. Here's why:

* Diverse and Engaging Interactions: A chatbot that provides varied and interesting responses will keep users engaged, especially in an interactive environment like a gaming platform. Gamers typically enjoy dynamic and evolving conversations, and diversity of responses helps prevent monotony, encouraging users to interact more frequently with the bot.

* Increasing Retention: By offering different types of responses to similar queries, the chatbot can create a sense of novelty and excitement, which enhances the user's experience and makes them more likely to return to the platform.

* Why Other Options Are Less Effective:

* A (Randomness): Random responses can be confusing or irrelevant, leading to frustration and reducing engagement.

* C (Lack of Relevance): If responses are not relevant to the user's queries, this will degrade the user experience and lead to

disengagement.

* D (Repetition of Responses): Repetitive responses can quickly bore users, making the chatbot feel uninteresting and reducing the likelihood of continued interaction.

Thus, diversity of responses (option B) is the most effective way to keep users engaged and retain them on the platform.

NEW QUESTION # 32

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