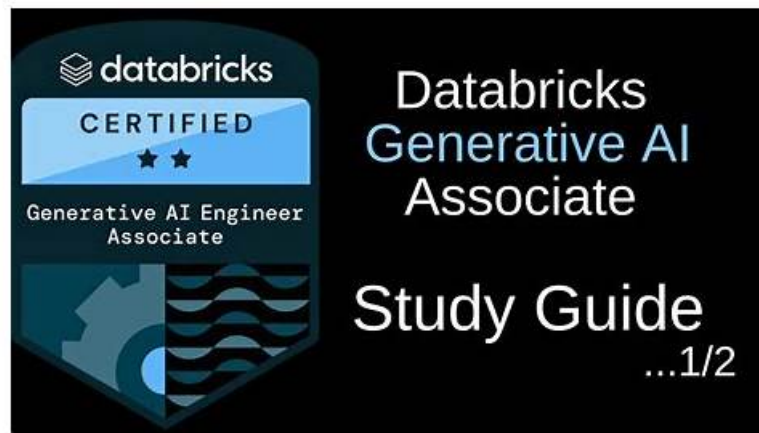


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Databricks Databricks-Generative-AI-Engineer-Associate Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• Evaluation and Monitoring: This topic is all about selecting an LLM choice and key metrics. Moreover, Generative AI Engineers learn about evaluating model performance. Lastly, the topic includes sub-topics about inference logging and usage of Databricks features.
Topic 3	• 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 (Q54-Q59):

NEW QUESTION # 54

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. Security Guardrail
- B. Contextual Guardrail
- C. Compliance 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 # 55

A Generative AI Engineer is creating an LLM-based application. The documents for its retriever have been chunked to a maximum of 512 tokens each. The Generative AI Engineer knows that cost and latency are more important than quality for this application. They have several context length levels to choose from. Which will fulfill their need?

- A. context length 512: smallest model is 0.13GB and embedding dimension 384
- B. context length 514; smallest model is 0.44GB and embedding dimension 768
- C. context length 2048: smallest model is 11GB and embedding dimension 2560
- D. context length 32768: smallest model is 14GB and embedding dimension 4096

Answer: A

Explanation:

When prioritizing cost and latency over quality in a Large Language Model (LLM)-based application, it is crucial to select a configuration that minimizes both computational resources and latency while still providing reasonable performance. Here's why Dis is the best choice:

* Context length: The context length of 512 tokens aligns with the chunk size used for the documents (maximum of 512 tokens per chunk). This is sufficient for capturing the needed information and generating responses without unnecessary overhead.

* Smallest model size: The model with a size of 0.13GB is significantly smaller than the other options.

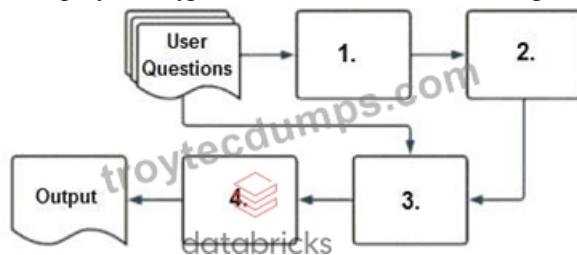
This small footprint ensures faster inference times and lower memory usage, which directly reduces both latency and cost.

* Embedding dimension: While the embedding dimension of 384 is smaller than the other options, it is still adequate for tasks where cost and speed are more important than precision and depth of understanding.

This setup achieves the desired balance between cost-efficiency and reasonable performance in a latency- sensitive, cost-conscious application.

NEW QUESTION # 56

A company has a typical RAG-enabled, customer-facing chatbot on its website.



Select the correct sequence of components a user's questions will go through before the final output is returned. Use the diagram above for reference.

- A. 1.context-augmented prompt, 2.vector search, 3.embedding model, 4.response-generating LLM
- B. 1.embedding model, 2.vector search, 3.context-augmented prompt, 4.response-generating LLM
- C. 1.response-generating LLM, 2.context-augmented prompt, 3.vector search, 4.embedding model
- D. 1.response-generating LLM, 2.vector search, 3.context-augmented prompt, 4.embedding model

Answer: B

Explanation:

To understand how a typical RAG-enabled customer-facing chatbot processes a user's question, let's go through the correct sequence as depicted in the diagram and explained in option A:

* Embedding Model (1):The first step involves the user's question being processed through an embedding model. This model converts the text into a vector format that numerically represents the text. This step is essential for allowing the subsequent vector search to operate effectively.

* Vector Search (2):The vectors generated by the embedding model are then used in a vector search mechanism. This search identifies the most relevant documents or previously answered questions that are stored in a vector format in a database.

* Context-Augmented Prompt (3):The information retrieved from the vector search is used to create a context-augmented prompt. This step involves enhancing the basic user query with additional relevant information gathered to ensure the generated response is as accurate and informative as possible.

* Response-Generating LLM (4):Finally, the context-augmented prompt is fed into a response- generating large language model (LLM). This LLM uses the prompt to generate a coherent and contextually appropriate answer, which is then delivered as the final output to the user.

Why Other Options Are Less Suitable:

* B, C, D: These options suggest incorrect sequences that do not align with how a RAG system typically processes queries. They misplace the role of embedding models, vector search, and response generation in an order that would not facilitate effective information retrieval and response generation.

Thus, the correct sequence is embedding model, vector search, context-augmented prompt, response-generating LLM, which is option A.

NEW QUESTION # 57

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

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 # 58

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

Answer: A

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 # 59

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