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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	• 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	• Governance: Generative AI Engineers who take the exam get knowledge about masking techniques, guardrail techniques, and legal • licensing requirements in this topic.

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Databricks Certified Generative AI Engineer Associate Sample Questions (Q32-Q37):

NEW QUESTION # 32
After changing the response generating LLM in a RAG pipeline from GPT-4 to a model with a shorter context length that the company self-hosts, the Generative AI Engineer is getting the following error:

```
{"error_code": "BAD_REQUEST", "message": "Bad request: rpc error:
code = InvalidArgument desc = prompt token count (4595) cannot
exceed 4096…"}
```

What TWO solutions should the Generative AI Engineer implement without changing the response generating model? (Choose two.)

- A. Use a smaller embedding model to generate
- B. Retrain the response generating model using ALiBi
- C. Reduce the number of records retrieved from the vector database
- D. Reduce the maximum output tokens of the new model
- E. Decrease the chunk size of embedded documents

Answer: C,E

Explanation:
Problem Context: After switching to a model with a shorter context length, the error message indicating that the prompt token count has exceeded the limit suggests that the input to the model is too large.
Explanation of Options:
Option A: Use a smaller embedding model to generate - This wouldn't necessarily address the issue of prompt size exceeding the model's token limit.
Option B: Reduce the maximum output tokens of the new model - This option affects the output length, not the size of the input being too large.
Option C: Decrease the chunk size of embedded documents - This would help reduce the size of each document chunk fed into the model, ensuring that the input remains within the model's context length limitations.
Option D: Reduce the number of records retrieved from the vector database - By retrieving fewer records, the total input size to the model can be managed more effectively, keeping it within the allowable token limits.
Option E: Retrain the response generating model using ALiBi - Retraining the model is contrary to the stipulation not to change the response generating model.
Options C and D are the most effective solutions to manage the model's shorter context length without changing the model itself, by adjusting the input size both in terms of individual document size and total documents retrieved.

NEW QUESTION # 33
Generative AI Engineer at an electronics company just deployed a RAG application for customers to ask questions about products that the company carries. However, they received feedback that the RAG response often returns information about an irrelevant product.
What can the engineer do to improve the relevance of the RAG's response?

- A. Assess the quality of the retrieved context
- B. Use a different LLM to improve the generated response
- C. Use a different semantic similarity search algorithm
- D. Implement caching for frequently asked questions

Answer: A

Explanation:
In a Retrieval-Augmented Generation (RAG) system, the key to providing relevant responses lies in the quality of the retrieved context. Here's why option A is the most appropriate solution:
Context Relevance:
The RAG model generates answers based on retrieved documents or context. If the retrieved information is about an irrelevant product, it suggests that the retrieval step is failing to select the right context. The Generative AI Engineer must first assess the quality of what is being retrieved and ensure it is pertinent to the query.
Vector Search and Embedding Similarity:
RAG typically uses vector search for retrieval, where embeddings of the query are matched against embeddings of product descriptions. Assessing the semantic similarity search process ensures that the closest matches are actually relevant to the query.
Fine-tuning the Retrieval Process:
By improving the retrieval quality, such as tuning the embeddings or adjusting the retrieval strategy, the system can return more accurate and relevant product information.
Why Other Options Are Less Suitable:
B (Caching FAQs): Caching can speed up responses for frequently asked questions but won't improve the relevance of the retrieved content for less frequent or new queries.
C (Use a Different LLM): Changing the LLM only affects the generation step, not the retrieval process, which is the core issue here.
D (Different Semantic Search Algorithm): This could help, but the first step is to evaluate the current retrieval context before replacing the search algorithm.
Therefore, improving and assessing the quality of the retrieved context (option A) is the first step to fixing the issue of irrelevant product information.

NEW QUESTION # 34
A Generative Al Engineer is deciding between using LSH (Locality Sensitive Hashing) and HNSW (Hierarchical Navigable Small World) for indexing their vector database Their top priority is semantic accuracy Which approach should the Generative Al Engineer use to evaluate these two techniques?

- A. Compare the Recall-Onented-Understudy for Gistmg Evaluation (ROUGE) scores of returned results for a representative sample of test inputs
- B. Compare the Bilingual Evaluation Understudy (BLEU) scores of returned results for a representative sample of test inputs
- C. Compare the cosine similarities of the embeddings of returned results against those of a representative sample of test inputs
- D. Compare the Levenshtein distances of returned results against a representative sample of test inputs

Answer: C

NEW QUESTION # 35
A Generative Al Engineer is building a production-ready LLM system which replies directly to customers. The solution makes use of the Foundation Model API via provisioned throughput. They are concerned that the LLM could potentially respond in a toxic or otherwise unsafe way. They also wish to perform this with the least amount of effort.
Which approach will do this?

- A. Ask users to report unsafe responses
- B. Host Llama Guard on Foundation Model API and use it to detect unsafe responses
- C. Add a regex expression on inputs and outputs to detect unsafe responses.

- D. Add some LLM calls to their chain to detect unsafe content before returning text

Answer: B

Explanation:
The task is to prevent toxic or unsafe responses in an LLM system using the Foundation Model API with minimal effort. Let's assess the options.
Option A: Host Llama Guard on Foundation Model API and use it to detect unsafe responses Llama Guard is a safety-focused model designed to detect toxic or unsafe content. Hosting it via the Foundation Model API (a Databricks service) integrates seamlessly with the existing system, requiring minimal setup (just deployment and a check step), and leverages provisioned throughput for performance.
Databricks Reference: "Foundation Model API supports hosting safety models like Llama Guard to filter outputs efficiently" ("Foundation Model API Documentation," 2023).
Option B: Add some LLM calls to their chain to detect unsafe content before returning text Using additional LLM calls (e.g., prompting an LLM to classify toxicity) increases latency, complexity, and effort (crafting prompts, chaining logic), and lacks the specificity of a dedicated safety model.
Databricks Reference: "Ad-hoc LLM checks are less efficient than purpose-built safety solutions" ("Building LLM Applications with Databricks").
Option C: Add a regex expression on inputs and outputs to detect unsafe responses Regex can catch simple patterns (e.g., profanity) but fails for nuanced toxicity (e.g., sarcasm, context-dependent harm), requiring significant manual effort to maintain and update rules.
Databricks Reference: "Regex-based filtering is limited for complex safety needs" ("Generative AI Cookbook").
Option D: Ask users to report unsafe responses
User reporting is reactive, not preventive, and places burden on users rather than the system. It doesn't limit unsafe outputs proactively and requires additional effort for feedback handling.
Databricks Reference: "Proactive guardrails are preferred over user-driven monitoring" ("Databricks Generative AI Engineer Guide").
Conclusion: Option A (Llama Guard on Foundation Model API) is the least-effort, most effective approach, leveraging Databricks' infrastructure for seamless safety integration.

NEW QUESTION # 36
A small and cost-conscious startup in the cancer research field wants to build a RAG application using Foundation Model APIs. Which strategy would allow the startup to build a good-quality RAG application while being cost-conscious and able to cater to customer needs?

- A. Pick a smaller LLM that is domain-specific
- B. Limit the number of queries a customer can send per day
- C. Limit the number of relevant documents available for the RAG application to retrieve from
- D. Use the largest LLM possible because that gives the best performance for any general queries

Answer: A

Explanation:
For a small, cost-conscious startup in the cancer research field, choosing a domain-specific and smaller LLM is the most effective strategy. Here's whyBis the best choice:
* Domain-specific performance: A smaller LLM that has been fine-tuned for the domain of cancer research will outperform a general-purpose LLM for specialized queries. This ensures high-quality responses without needing to rely on a large, expensive LLM.
* Cost-efficiency: Smaller models are cheaper to run, both in terms of compute resources and API usage costs. A domain-specific smaller LLM can deliver good quality responses without the need for the extensive computational power required by larger models.
* Focused knowledge: In a specialized field like cancer research, having an LLM tailored to the subject matter provides better relevance and accuracy for queries, while keeping costs low.Large, general- purpose LLMs may provide irrelevant information, leading to inefficiency and higher costs.
This approach allows the startup to balance quality, cost, and customer satisfaction effectively, making it the most suitable strategy.

NEW QUESTION # 37
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