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Databricks Databricks-Generative-AI-Engineer-Associate Questions - To Pass Exam Easily [2025]

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Databricks Certified Generative AI Engineer Associate Sample Questions (Q18-Q23):

NEW QUESTION # 18

A Generative AI Engineer has created a RAG application which can help employees retrieve answers from an internal knowledge base, such as Confluence pages or Google Drive. The prototype application is now working with some positive feedback from internal company testers. Now the Generative AI Engineer wants to formally evaluate the system's performance and understand where to focus their efforts to further improve the system.

How should the Generative AI Engineer evaluate the system?

- **A. Curate a dataset that can test the retrieval and generation components of the system separately. Use MLflow's built in evaluation metrics to perform the evaluation on the retrieval and generation components.**
- B. Use an LLM-as-a-judge to evaluate the quality of the final answers generated.
- C. Benchmark multiple LLMs with the same data and pick the best LLM for the job.
- D. Use cosine similarity score to comprehensively evaluate the quality of the final generated answers.

Answer: A

Explanation:

* Problem Context: After receiving positive feedback for the RAG application prototype, the next step is to formally evaluate the system to pinpoint areas for improvement.

* Explanation of Options:

* Option A: While cosine similarity scores are useful, they primarily measure similarity rather than the overall performance of an RAG system.

* Option B: This option provides a systematic approach to evaluation by testing both retrieval and generation components separately. This allows for targeted improvements and a clear understanding of each component's performance, using MLflow's metrics for a structured and standardized assessment.

* Option C: Benchmarking multiple LLMs does not focus on evaluating the existing system's components but rather on comparing different models.

* Option D: Using an LLM as a judge is subjective and less reliable for systematic performance evaluation.

Option B is the most comprehensive and structured approach, facilitating precise evaluations and improvements on specific components of the RAG system.

NEW QUESTION # 19

A Generative AI Engineer has a provisioned throughput model serving endpoint as part of a RAG application and would like to monitor the serving endpoint's incoming requests and outgoing responses. The current approach is to include a micro-service in between the endpoint and the user interface to write logs to a remote server.

Which Databricks feature should they use instead which will perform the same task?

- **A. Inference Tables**
- B. DBSQL
- C. Lakeview
- D. Vector Search

Answer: A

Explanation:

Problem Context: The goal is to monitor the serving endpoint for incoming requests and outgoing responses in a provisioned throughput model serving endpoint within a Retrieval-Augmented Generation (RAG) application. The current approach involves using a microservice to log requests and responses to a remote server, but the Generative AI Engineer is looking for a more streamlined solution within Databricks.

Explanation of Options:

* Option A: Vector Search: This feature is used to perform similarity searches within vector databases.

It doesn't provide functionality for logging or monitoring requests and responses in a serving endpoint, so it's not applicable here.

* Option B: Lakeview: Lakeview is not a feature relevant to monitoring or logging request-response cycles for serving endpoints. It might be more related to viewing data in Databricks Lakehouse but doesn't fulfill the specific monitoring requirement.

* Option C: DBSQL: Databricks SQL (DBSQL) is used for running SQL queries on data stored in Databricks, primarily for analytics purposes. It doesn't provide the direct functionality needed to monitor requests and responses in real-time for an inference endpoint.

* Option D: Inference Tables: This is the correct answer. Inference Tables in Databricks are designed to store the results and metadata of inference runs. This allows the system to log incoming requests and outgoing responses directly within Databricks, making it an ideal choice for monitoring the behavior of a provisioned serving endpoint. Inference Tables can be queried and analyzed, enabling easier monitoring and debugging compared to a custom microservice.

Thus, Inference Tables are the optimal feature for monitoring request and response logs within the Databricks infrastructure for a model serving endpoint.

NEW QUESTION # 20

A Generative AI Engineer is building a Generative AI system that suggests the best matched employee team member to newly scoped projects. The team member is selected from a very large team. The match should be based upon project date availability and how well their employee profile matches the project scope. Both the employee profile and project scope are unstructured text. How should the Generative AI Engineer architect their system?

- A. Create a tool to find available team members given project dates. Create a second tool that can calculate a similarity score for a combination of team member profile and the project scope. Iterate through the team members and rank by best score to select a team member.
- B. Create a tool for finding team member availability given project dates, and another tool that uses an LLM to extract keywords from project scopes. Iterate through available team members' profiles and perform keyword matching to find the best available team member.
- C. Create a tool for finding available team members given project dates. Embed all project scopes into a vector store, perform a retrieval using team member profiles to find the best team member.
- **D. Create a tool for finding available team members given project dates. Embed team profiles into a vector store and use the project scope and filtering to perform retrieval to find the available best matched team members.**

Answer: D

NEW QUESTION # 21

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

Answer: A,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 # 22

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

Answer: C

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 C 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 # 23

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