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

| Topic   | Details  |
|---------|--|
| Topic 1 | <ul style="list-style-type: none"><li>• 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.</li></ul> |
| Topic 2 | <ul style="list-style-type: none"><li>• 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.</li></ul>  |
| Topic 3 | <ul style="list-style-type: none"><li>• 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.</li></ul>                                      |
| Topic 4 | <ul style="list-style-type: none"><li>• Governance: Generative AI Engineers who take the exam get knowledge about masking techniques, guardrail techniques, and legal</li><li>• licensing requirements in this topic.</li></ul>  |

# PDF Databricks Databricks-Generative-AI-Engineer-Associate Cram Exam | Databricks-Generative-AI-Engineer-Associate Flexible Learning Mode

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## Databricks Certified Generative AI Engineer Associate Sample Questions (Q39-Q44):

### NEW QUESTION # 39

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. Benchmark multiple LLMs with the same data and pick the best LLM for the job.
- B. Use cosine similarity score to comprehensively evaluate the quality of the final generated answers.
- C. Use an LLM-as-a-judge to evaluate the quality of the final answers generated.
- D. 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.

**Answer: D**

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 # 40

A Generative AI Engineer is developing an LLM application that users can use to generate personalized birthday poems based on their names.

Which technique would be most effective in safeguarding the application, given the potential for malicious user inputs?

- A. Ask the LLM to remind the user that the input is malicious but continue the conversation with the user
- B. Increase the amount of compute that powers the LLM to process input faster
- C. Reduce the time that the users can interact with the LLM
- D. Implement a safety filter that detects any harmful inputs and ask the LLM to respond that it is unable to assist

**Answer: D**

Explanation:

In this case, the Generative AI Engineer is developing an application to generate personalized birthday poems, but there's a need to

safeguard against malicious user inputs. The best solution is to implement a safety filter (option A) to detect harmful or inappropriate inputs.

\* Safety Filter Implementation: Safety filters are essential for screening user input and preventing inappropriate content from being processed by the LLM. These filters can scan inputs for harmful language, offensive terms, or malicious content and intervene before the prompt is passed to the LLM.

\* Graceful Handling of Harmful Inputs: Once the safety filter detects harmful content, the system can provide a message to the user, such as "I'm unable to assist with this request," instead of processing or responding to malicious input. This protects the system from generating harmful content and ensures a controlled interaction environment.

\* Why Other Options Are Less Suitable:

\* B (Reduce Interaction Time): Reducing the interaction time won't prevent malicious inputs from being entered.

\* C (Continue the Conversation): While it's possible to acknowledge malicious input, it is not safe to continue the conversation with harmful content. This could lead to legal or reputational risks.

\* D (Increase Compute Power): Adding more compute doesn't address the issue of harmful content and would only speed up processing without resolving safety concerns.

Therefore, implementing a safety filter that blocks harmful inputs is the most effective technique for safeguarding the application.

### NEW QUESTION # 41

A Generative AI Engineer is building a RAG application that answers questions about internal documents for the company SnoPen AI.

The source documents may contain a significant amount of irrelevant content, such as advertisements, sports news, or entertainment news, or content about other companies.

Which approach is advisable when building a RAG application to achieve this goal of filtering irrelevant information?

- A. Include in the system prompt that any information it sees will be about SnoPen AI, even if no data filtering is performed.
- **B. Include in the system prompt that the application is not supposed to answer any questions unrelated to SnoPen AI.**
- C. Consolidate all SnoPen AI related documents into a single chunk in the vector database.
- D. Keep all articles because the RAG application needs to understand non-company content to avoid answering questions about them.

**Answer: B**

Explanation:

In a Retrieval-Augmented Generation (RAG) application built to answer questions about internal documents, especially when the dataset contains irrelevant content, it's crucial to guide the system to focus on the right information. The best way to achieve this is by including a clear instruction in the system prompt (option C).

\* System Prompt as Guidance: The system prompt is an effective way to instruct the LLM to limit its focus to SnoPen AI-related content. By clearly specifying that the model should avoid answering questions unrelated to SnoPen AI, you add an additional layer of control that helps the model stay on- topic, even if irrelevant content is present in the dataset.

\* Why This Approach Works: The prompt acts as a guiding principle for the model, narrowing its focus to specific domains. This prevents the model from generating answers based on irrelevant content, such as advertisements or news unrelated to SnoPen AI.

\* Why Other Options Are Less Suitable:

\* A (Keep All Articles): Retaining all content, including irrelevant materials, without any filtering makes the system prone to generating answers based on unwanted data.

\* B (Include in the System Prompt about SnoPen AI): This option doesn't address irrelevant content directly, and without filtering, the model might still retrieve and use irrelevant data.

\* D (Consolidating Documents into a Single Chunk): Grouping documents into a single chunk makes the retrieval process less efficient and won't help filter out irrelevant content effectively.

Therefore, instructing the system in the prompt not to answer questions unrelated to SnoPen AI (option C) is the best approach to ensure the system filters out irrelevant information.

### NEW QUESTION # 42

A Generative AI Engineer I using the code below to test setting up a vector store:

```
from databricks.vector_search.client import VectorSearchClient

vsc = VectorSearchClient()

vsc.create_endpoint(
    name="vector_search_test",
    endpoint_type="STANDARD"
)
```

Assuming they intend to use Databricks managed embeddings with the default embedding model, what should be the next logical function call?

- A. `vsc.similarity_search()`
- B. `vsc.get_index()`
- C. `vsc.create_direct_access_index()`
- **D. `vsc.create_delta_sync_index()`**

**Answer: D**

Explanation:

Context: The Generative AI Engineer is setting up a vector store using Databricks' VectorSearchClient. This is typically done to enable fast and efficient retrieval of vectorized data for tasks like similarity searches.

Explanation of Options:

\* Option A: `vsc.get_index()`: This function would be used to retrieve an existing index, not create one, so it would not be the logical next step immediately after creating an endpoint.

\* Option B: `vsc.create_delta_sync_index()`: After setting up a vector store endpoint, creating an index is necessary to start populating and organizing the data. The `create_delta_sync_index()` function specifically creates an index that synchronizes with a Delta table, allowing automatic updates as the data changes. This is likely the most appropriate choice if the engineer plans to use dynamic data that is updated over time.

\* Option C: `vsc.create_direct_access_index()`: This function would create an index that directly accesses the data without synchronization. While also a valid approach, it's less likely to be the next logical step if the default setup (typically accommodating changes) is intended.

\* Option D: `vsc.similarity_search()`: This function would be used to perform searches on an existing index; however, an index needs to be created and populated with data before any search can be conducted.

Given the typical workflow in setting up a vector store, the next step after creating an endpoint is to establish an index, particularly one that synchronizes with ongoing data updates, hence Option B.

#### NEW QUESTION # 43

A Generative AI 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 AI Engineer use to evaluate these two techniques?

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

**Answer: B**

Explanation:

The task is to choose between LSH and HNSW for a vector database index, prioritizing semantic accuracy.

The evaluation must assess how well each method retrieves semantically relevant results. Let's evaluate the options.

\* Option A: Compare the cosine similarities of the embeddings of returned results against those of a representative sample of test inputs

\* Cosine similarity measures semantic closeness between vectors, directly assessing retrieval accuracy in a vector database.

Comparing returned results' embeddings to test inputs' embeddings evaluates how well LSH or HNSW preserves semantic relationships, aligning with the priority.

\* Databricks Reference: "Cosine similarity is a standard metric for evaluating vector search accuracy" ("Databricks Vector Search Documentation," 2023).

\* Option B: Compare the Bilingual Evaluation Understudy (BLEU) scores of returned results for a representative sample of test inputs

\* BLEU evaluates text generation (e.g., translations), not vector retrieval accuracy. It's irrelevant for indexing performance.

\* Databricks Reference: "BLEU applies to generative tasks, not retrieval" ("Generative AI Cookbook").

\* Option C: Compare the Recall-Oriented-Understudy for Gisting Evaluation (ROUGE) scores of returned results for a representative sample of test inputs

\* ROUGE is for summarization evaluation, not vector search. It doesn't measure semantic accuracy in retrieval.

\* Databricks Reference: "ROUGE is unsuited for vector database evaluation" ("Building LLM Applications with Databricks").

\* Option D: Compare the Levenshtein distances of returned results against a representative sample of test inputs

\* Levenshtein distance measures string edit distance, not semantic similarity in embeddings. It's inappropriate for vector-based retrieval.

\* Databricks Reference: No specific support for Levenshtein in vector search contexts.

Conclusion: Option A (cosine similarity) is the correct approach, directly evaluating semantic accuracy in vector retrieval, as recommended by Databricks for Vector Search assessments.

## NEW QUESTION # 44

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