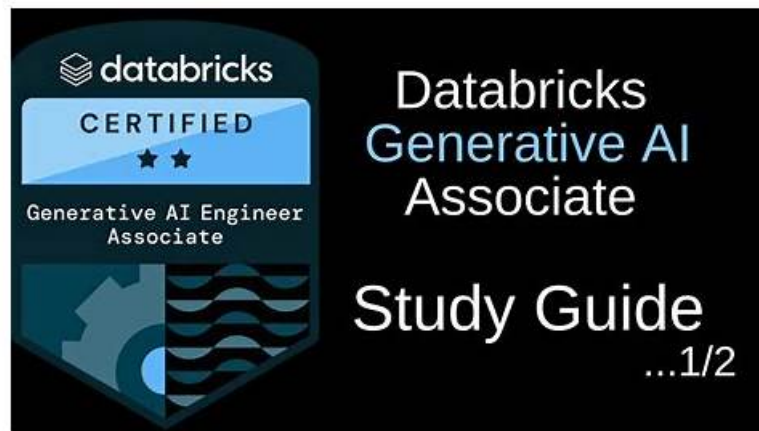


Kostenlose gültige Prüfung Databricks Databricks-Generative-AI-Engineer-Associate Sammlung - Examcollection



Außerdem sind jetzt einige Teile dieser ZertPruefung Databricks-Generative-AI-Engineer-Associate Prüfungsfragen kostenlos erhältlich: https://drive.google.com/open?id=1uFIYKYhKLova_quffHxmzrUzHraBEuc

Databricks Databricks-Generative-AI-Engineer-Associate Dumps von ZertPruefung sind ganz gleich wie die richtigen Zertifizierungsprüfungen. Die beinhalten alle Prüfungsfragen und Testantworten in aktueller Prüfung. Und die Software-Version simuliert die gleiche Atmosphäre der aktuellen Prüfungen. Bei der Nutzung der ZertPruefung Dumps, können Sie ganz sorglos die Databricks Databricks-Generative-AI-Engineer-Associate Prüfung ablegen und sehr gute Note bekommen.

Databricks Databricks-Generative-AI-Engineer-Associate Prüfungsplan:

Thema	Einzelheiten
Thema 1	• Governance: Generative AI Engineers who take the exam get knowledge about masking techniques, guardrail techniques, and legal • licensing requirements in this topic.
Thema 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.
Thema 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-Generative-AI-Engineer-Associate Fragen Beantworten <<

Databricks-Generative-AI-Engineer-Associate Prüfung - Databricks-Generative-AI-Engineer-Associate Examsfragen

Unsere Prüfungsunterlage zu Databricks Databricks-Generative-AI-Engineer-Associate (Databricks Certified Generative AI Engineer Associate) enthält alle echten, originalen und richtigen Fragen und Antworten. Die Abdeckungsrate unserer Unterlage (Fragen und Antworten) zu Databricks Databricks-Generative-AI-Engineer-Associate (Databricks Certified Generative AI Engineer Associate) ist normalerweise mehr als 98%.

Databricks Certified Generative AI Engineer Associate Databricks-Generative-AI-Engineer-Associate Prüfungsfragen mit Lösungen (Q15-Q20):

15. Frage

A Generative AI 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

Antwort: B

Begründung:

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.

16. Frage

Which TWO chain components are required for building a basic LLM-enabled chat application that includes conversational capabilities, knowledge retrieval, and contextual memory?

- A. Chat loaders
- **B. Vector Stores**
- C. External tools
- D. (Q)
- E. React Components
- **F. Conversation Buffer Memory**

Antwort: B,F

Begründung:

Building a basic LLM-enabled chat application with conversational capabilities, knowledge retrieval, and contextual memory requires specific components that work together to process queries, maintain context, and retrieve relevant information. Databricks' Generative AI Engineer documentation outlines key components for such systems, particularly in the context of frameworks like LangChain or Databricks' MosaicML integrations. Let's evaluate the required components:

- * Understanding the Requirements:
 - * Conversational capabilities: The app must generate natural, coherent responses.
 - * Knowledge retrieval: It must access external or domain-specific knowledge.
 - * Contextual memory: It must remember prior interactions in the conversation.
 - * Databricks Reference: "A typical LLM chat application includes a memory component to track conversation history and a retrieval mechanism to incorporate external knowledge" ("Databricks Generative AI Cookbook," 2023).
 - * Evaluating the Options:
 - * A. (Q): This appears incomplete or unclear (possibly a typo). Without further context, it's not a valid component.
 - * B. Vector Stores: These store embeddings of documents or knowledge bases, enabling semantic search and retrieval of relevant information for the LLM. This is critical for knowledge retrieval in a chat application.
 - * Databricks Reference: "Vector stores, such as those integrated with Databricks' Lakehouse, enable efficient retrieval of contextual data for LLMs" ("Building LLM Applications with Databricks").
 - * C. Conversation Buffer Memory: This component stores the conversation history, allowing the LLM to maintain context across multiple turns. It's essential for contextual memory.
 - * Databricks Reference: "Conversation Buffer Memory tracks prior user inputs and LLM outputs, ensuring context-aware responses" ("Generative AI Engineer Guide").
 - * D. External tools: These (e.g., APIs or calculators) enhance functionality but aren't required for a basic chat app with the specified capabilities.
 - * E. Chat loaders: These might refer to data loaders for chat logs, but they're not a core chain component for conversational functionality or memory.
 - * F. React Components: These relate to front-end UI development, not the LLM chain's backend functionality.
 - * Selecting the Two Required Components:
 - * For knowledge retrieval, Vector Stores (B) are necessary to fetch relevant external data, a cornerstone of Databricks' RAG-based chat systems.
 - * For contextual memory, Conversation Buffer Memory (C) is required to maintain conversation history, ensuring coherent and context-aware responses.
 - * While an LLM itself is implied as the core generator, the question asks for chain components beyond the model, making B and C the minimal yet sufficient pair for a basic application.
- Conclusion: The two required chain components are B. Vector Stores and C. Conversation Buffer Memory, as they directly address knowledge retrieval and contextual memory, respectively, aligning with Databricks' documented best practices for LLM-enabled chat applications.

17. Frage

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. Contextual Guardrail
- B. Security Guardrail
- C. Compliance Guardrail
- **D. Safety Guardrail**

Antwort: D

Begründung:

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.

18. Frage

A Generative AI Engineer is creating an LLM-powered application that will need access to up-to-date news articles and stock prices.

The design requires the use of stock prices which are stored in Delta tables and finding the latest relevant news articles by searching the internet.

How should the Generative AI Engineer architect their LLM system?

- A. Query the Delta table for volatile stock prices and use an LLM to generate a search query to investigate potential causes of the stock volatility.
- B. Use an LLM to summarize the latest news articles and lookup stock tickers from the summaries to find stock prices.
- C. Download and store news articles and stock price information in a vector store. Use a RAG architecture to retrieve and generate at runtime.
- **D. Create an agent with tools for SQL querying of Delta tables and web searching, provide retrieved values to an LLM for generation of response.**

Antwort: D

Begründung:

To build an LLM-powered system that accesses up-to-date news articles and stock prices, the best approach is to create an agent that has access to specific tools (option D).

* Agent with SQL and Web Search Capabilities: By using an agent-based architecture, the LLM can interact with external tools. The agent can query Delta tables (for up-to-date stock prices) via SQL and perform web searches to retrieve the latest news articles. This modular approach ensures the system can access both structured (stock prices) and unstructured (news) data sources dynamically.

* Why This Approach Works:

* SQL Queries for Stock Prices: Delta tables store stock prices, which the agent can query directly for the latest data.

* Web Search for News: For news articles, the agent can generate search queries and retrieve the most relevant and recent articles, then pass them to the LLM for processing.

* Why Other Options Are Less Suitable:

* A (Summarizing News for Stock Prices): This convoluted approach would not ensure accuracy when retrieving stock prices, which are already structured and stored in Delta tables.

* B (Stock Price Volatility Queries): While this could retrieve relevant information, it doesn't address how to obtain the most up-to-date news articles.

* C (Vector Store): Storing news articles and stock prices in a vector store might not capture the real-time nature of stock data and news updates, as it relies on pre-existing data rather than dynamic querying.

Thus, using an agent with access to both SQL for querying stock prices and web search for retrieving news articles is the best approach for ensuring up-to-date and accurate responses.

19. Frage

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

Antwort: A

Begründung:

* 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.

20. Frage

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