

Databricks-Generative-AI-Engineer-Associate

Fragen&Antworten, Databricks-Generative-AI-Engineer-Associate Deutsche



Übrigens, Sie können die vollständige Version der ZertSoft Databricks-Generative-AI-Engineer-Associate Prüfungsfragen aus dem Cloud-Speicher herunterladen: https://drive.google.com/open?id=1Ubww676yPjXCDRID37IT6u4BQGS_XcM

ZertSoft ist eine Website, die kurze aber effiziente Ausbildung zur Databricks Databricks-Generative-AI-Engineer-Associate Zertifizierungsprüfung bietet. Die Databricks Databricks-Generative-AI-Engineer-Associate Zertifizierungsprüfung kann Ihr Leben verändern. Die IT-Fachleute mit Databricks Databricks-Generative-AI-Engineer-Associate Zertifikat haben höheres Gehalt, bessere Beförderungsmöglichkeiten und bessere Berufsaussichten in der IT-Branche.

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

Thema	Einzelheiten
Thema 1	• Application Development: In this topic, Generative AI Engineers learn about tools needed to extract data, Langchain • similar tools, and assessing responses to identify common issues. Moreover, the topic includes questions about adjusting an LLM's response, LLM guardrails, and the best LLM based on the attributes of the application.
Thema 2	• 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.
Thema 3	• 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 4	• 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.

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Databricks-Generative-AI-Engineer-Associate Zertifizierungsfragen, Databricks Databricks-Generative-AI-Engineer-Associate Prüfung Fragen

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Databricks Certified Generative AI Engineer Associate Databricks- Generative-AI-Engineer-Associate Prüfungsfragen mit Lösungen (Q54-Q59):

54. Frage

A Generative AI Engineer is designing an LLM-powered live sports commentary platform. The platform provides real-time updates and LLM-generated analyses for any users who would like to have live summaries, rather than reading a series of potentially outdated news articles.

Which tool below will give the platform access to real-time data for generating game analyses based on the latest game scores?

- A. AutoML
- B. Foundation Model APIs
- **C. Feature Serving**
- D. DatabricksIQ

Antwort: C

Begründung:

* Problem Context: The engineer is developing an LLM-powered live sports commentary platform that needs to provide real-time updates and analyses based on the latest game scores. The critical requirement here is the capability to access and integrate real-time data efficiently with the platform for immediate analysis and reporting.

* Explanation of Options:

* Option A: DatabricksIQ: While DatabricksIQ offers integration and data processing capabilities, it is more aligned with data analytics rather than real-time feature serving, which is crucial for immediate updates necessary in a live sports commentary context.

* Option B: Foundation Model APIs: These APIs facilitate interactions with pre-trained models and could be part of the solution, but on their own, they do not provide mechanisms to access real-time game scores.

* Option C: Feature Serving: This is the correct answer as feature serving specifically refers to the real-time provision of data (features) to models for prediction. This would be essential for an LLM that generates analyses based on live game data, ensuring that the commentary is current and based on the latest events in the sport.

* Option D: AutoML: This tool automates the process of applying machine learning models to real-world problems, but it does not directly provide real-time data access, which is a critical requirement for the platform.

Thus, Option C (Feature Serving) is the most suitable tool for the platform as it directly supports the real-time data needs of an LLM-powered sports commentary system, ensuring that the analyses and updates are based on the latest available information.

55. Frage

A Generative AI Engineer is using an LLM to classify species of edible mushrooms based on text descriptions of certain features. The model is returning accurate responses in testing and the Generative AI Engineer is confident they have the correct list of possible labels, but the output frequently contains additional reasoning in the answer when the Generative AI Engineer only wants to return the label with no additional text.

Which action should they take to elicit the desired behavior from this LLM?

- A. Use few shot prompting to instruct the model on expected output format
- B. Use zero shot prompting to instruct the model on expected output format
- C. Use zero shot chain-of-thought prompting to prevent a verbose output format
- **D. Use a system prompt to instruct the model to be succinct in its answer**

Antwort: D

Begründung:

The LLM classifies mushroom species accurately but includes unwanted reasoning text, and the engineer wants only the label. Let's assess how to control output format effectively.

- * Option A: Use few shot prompting to instruct the model on expected output format
- * Few-shot prompting provides examples (e.g., input: description, output: label). It can work but requires crafting multiple examples, which is effort-intensive and less direct than a clear instruction.
- * Databricks Reference: "Few-shot prompting guides LLMs via examples, effective for format control but requires careful design" ("Generative AI Cookbook").
- * Option B: Use zero shot prompting to instruct the model on expected output format
- * Zero-shot prompting relies on a single instruction (e.g., "Return only the label") without examples. It's simpler than few-shot but may not consistently enforce succinctness if the LLM's default behavior is verbose.
- * Databricks Reference: "Zero-shot prompting can specify output but may lack precision without examples" ("Building LLM Applications with Databricks").
- * Option C: Use zero shot chain-of-thought prompting to prevent a verbose output format
- * Chain-of-Thought (CoT) encourages step-by-step reasoning, which increases verbosity-opposite to the desired outcome. This contradicts the goal of label-only output.
- * Databricks Reference: "CoT prompting enhances reasoning but often results in detailed responses" ("Databricks Generative AI Engineer Guide").
- * Option D: Use a system prompt to instruct the model to be succinct in its answer
- * A system prompt (e.g., "Respond with only the species label, no additional text") sets a global instruction for the LLM's behavior. It's direct, reusable, and effective for controlling output style across queries.
- * Databricks Reference: "System prompts define LLM behavior consistently, ideal for enforcing concise outputs" ("Generative AI Cookbook," 2023).

Conclusion: Option D is the most effective and straightforward action, using a system prompt to enforce succinct, label-only responses, aligning with Databricks' best practices for output control.

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

Antwort: B

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.

57. Frage

A Generative AI Engineer is designing a chatbot for a gaming company that aims to engage users on its platform while its users play online video games.

Which metric would help them increase user engagement and retention for their platform?

- A. Randomness
- B. Lack of relevance

- C. Diversity of responses
- D. Repetition of responses

Antwort: C

Begründung:

In the context of designing a chatbot to engage users on a gaming platform, diversity of responses (option B) is a key metric to increase user engagement and retention. Here's why:

* **Diverse and Engaging Interactions:** A chatbot that provides varied and interesting responses will keep users engaged, especially in an interactive environment like a gaming platform. Gamers typically enjoy dynamic and evolving conversations, and diversity of responses helps prevent monotony, encouraging users to interact more frequently with the bot.

* **Increasing Retention:** By offering different types of responses to similar queries, the chatbot can create a sense of novelty and excitement, which enhances the user's experience and makes them more likely to return to the platform.

* **Why Other Options Are Less Effective:**

* **A (Randomness):** Random responses can be confusing or irrelevant, leading to frustration and reducing engagement.

* **C (Lack of Relevance):** If responses are not relevant to the user's queries, this will degrade the user experience and lead to disengagement.

* **D (Repetition of Responses):** Repetitive responses can quickly bore users, making the chatbot feel uninteresting and reducing the likelihood of continued interaction.

Thus, diversity of responses (option B) is the most effective way to keep users engaged and retain them on the platform.

58. Frage

A Generative AI Engineer is building a RAG application that will rely on context retrieved from source documents that are currently in PDF format. These PDFs can contain both text and images. They want to develop a solution using the least amount of lines of code.

Which Python package should be used to extract the text from the source documents?

- A. unstructured
- B. beautifulsoup
- C. numpy
- D. flask

Antwort: A

Begründung:

* **Problem Context:** The engineer needs to extract text from PDF documents, which may contain both text and images. The goal is to find a Python package that simplifies this task using the least amount of code.

* **Explanation of Options:**

* **Option A: flask:** Flask is a web framework for Python, not suitable for processing or extracting content from PDFs.

* **Option B: beautifulsoup:** Beautiful Soup is designed for parsing HTML and XML documents, not PDFs.

* **Option C: unstructured:** This Python package is specifically designed to work with unstructured data, including extracting text from PDFs. It provides functionalities to handle various types of content in documents with minimal coding, making it ideal for the task.

* **Option D: numpy:** Numpy is a powerful library for numerical computing in Python and does not provide any tools for text extraction from PDFs.

Given the requirement, Option C (unstructured) is the most appropriate as it directly addresses the need to efficiently extract text from PDF documents with minimal code.

59. Frage

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