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

| Topic | Details |
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| Topic 1 | <ul style="list-style-type: none"> • 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 2 | <ul style="list-style-type: none"> • Governance: Generative AI Engineers who take the exam get knowledge about masking techniques, guardrail techniques, and legal • licensing requirements in this topic. |
| Topic 3 | <ul style="list-style-type: none"> • 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. |
| Topic 4 | <ul style="list-style-type: none"> • 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. |
| Topic 5 | <ul style="list-style-type: none"> • 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. |

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Databricks Certified Generative AI Engineer Associate Sample Questions (Q72-Q77):

NEW QUESTION # 72

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

Answer: B

Explanation:

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.

NEW QUESTION # 73

A Generative AI Engineer is deploying a customer-facing, fine-tuned LLM on their public website. Given the large investment the company put into fine-tuning this model, and the proprietary nature of the tuning data, they are concerned about model inversion attacks. Which of the following Databricks AI Security Framework (DASF) risk mitigation strategies are most relevant to this use case?

- A. Apply attribute-based access controls (ABAC) to limit unauthorized access
- B. Use secure model features with Databricks Feature Store
- C. Leverage Databricks access control lists (ACLs) to configure permissions for accessing models
- **D. Implement AI guardrails to allow users to configure and enforce compliance**

Answer: D

Explanation:

Model inversion attacks occur when an attacker uses the model's outputs to reconstruct the sensitive training data used during the fine-tuning process. To mitigate this in a public-facing application, implementing AI Guardrails is the most relevant strategy. Guardrails act as a programmable "filter" between the LLM and the end-user. They can be configured to detect if a model's response contains patterns that look like proprietary training data or PII (Personally Identifiable Information). While ACLs (B) and ABAC (D) protect the model's infrastructure (who can invoke the API), they do not inspect the content of the output, which is where the inversion attack actually manifests. Databricks provides integrated guardrail capabilities (via Mosaic AI Gateway) specifically to enforce compliance and prevent the leakage of sensitive internal knowledge that may have been baked into the model weights during fine-tuning.

NEW QUESTION # 74

A Generative AI Engineer is developing an agent system using a popular agent-authoring library. The agent comprises multiple parallel and sequential chains. The engineer encounters challenges as the agent fails at one of the steps, making it difficult to debug the root cause. They need to find an appropriate approach to research this issue and discover the cause of failure. Which approach do they choose?

- **A. Enable MLflow tracing to gain visibility into each agent's behavior and execution step.**
- B. Deconstruct the agent into independent steps to simplify debugging.
- C. Implement structured logging within the agent's code to capture detailed execution information.
- D. Run MLflow.evaluate to determine root cause of failed step.

Answer: A

Explanation:

For complex agentic systems (like those built with LangGraph or Autogen), standard logging is often insufficient because the "state"

of the agent changes dynamically. MLflow Tracing is the designated Generative AI engineering standard for debugging these systems. Tracing provides a visual, hierarchical timeline of every call made during an agent's execution-including internal LLM reasoning, tool calls, and data transformations. When a step fails, the trace allows the engineer to click into that specific node to see the exact input sent to the LLM and the raw output received. This is much faster and more comprehensive than manually deconstructing the agent (D) or adding manual logs (C). While `mlflow.evaluate` (B) is useful for measuring performance across a whole dataset, it is not a tool for real-time debugging of a single execution failure.

NEW QUESTION # 75

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

Answer: D

Explanation:

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.

NEW QUESTION # 76

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

Answer: B

Explanation:

* 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.

NEW QUESTION # 77

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