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

Topic	Details
Topic 1	• 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.
Topic 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.
Topic 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.

Topic 4	• 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.
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Databricks Certified Generative AI Engineer Associate Sample Questions (Q39-Q44):

NEW QUESTION # 39

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LLM-generated analyses for any users who would like to have live summaries, rather than reading a series of potentially outdated news articles.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. Feature Serving**
- C. Foundation Model APIs
- D. DatabricksIQ

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 # 40

A Generative AI Engineer has been asked to build an LLM-based question-answering application. The application should take into account new documents that are frequently published. The engineer wants to build this application with the least cost and least development effort and have it operate at the lowest cost possible.

Which combination of chaining components and configuration meets these requirements?

- A. For the question-answering application, prompt engineering and an LLM are required to generate answers.
- B. For the application a prompt, an agent and a fine-tuned LLM are required. The agent is used by the LLM to retrieve relevant content that is inserted into the prompt which is given to the LLM to generate answers.
- C. The LLM needs to be frequently with the new documents in order to provide most up-to-date answers.
- **D. For the application a prompt, a retriever, and an LLM are required. The retriever output is inserted into the prompt which is given to the LLM to generate answers.**

Answer: D

Explanation:

Problem Context: The task is to build an LLM-based question-answering application that integrates new documents frequently with minimal costs and development efforts.

Explanation of Options:

- * Option A: Utilizes a prompt and a retriever, with the retriever output being fed into the LLM. This setup is efficient because it dynamically updates the data pool via the retriever, allowing the LLM to provide up-to-date answers based on the latest documents without needing to frequently retrain the model. This method offers a balance of cost-effectiveness and functionality.
 - * Option B: Requires frequent retraining of the LLM, which is costly and labor-intensive.
 - * Option C: Only involves prompt engineering and an LLM, which may not adequately handle the requirement for incorporating new documents unless it's part of an ongoing retraining or updating mechanism, which would increase costs.
 - * Option D: Involves an agent and a fine-tuned LLM, which could be overkill and lead to higher development and operational costs.
- Option A is the most suitable as it provides a cost-effective, minimal development approach while ensuring the application remains up-to-date with new information.

NEW QUESTION # 41

A Generative AI Engineer is building a system which will answer questions on latest stock news articles.

Which will NOT help with ensuring the outputs are relevant to financial news?

- A. Implement a comprehensive guardrail framework that includes policies for content filters tailored to the finance sector.
- B. Incorporate manual reviews to correct any problematic outputs prior to sending to the users
- **C. Increase the compute to improve processing speed of questions to allow greater relevancy analysis**
- **C Implement a profanity filter to screen out offensive language**

Answer: C

Explanation:

In the context of ensuring that outputs are relevant to financial news, increasing compute power (option B) does not directly improve the relevance of the LLM-generated outputs. Here's why:

- * Compute Power and Relevancy: Increasing compute power can help the model process inputs faster, but it does not inherently improve the relevance of the answers. Relevancy depends on the data sources, the retrieval method, and the filtering mechanisms in place, not on how quickly the model processes the query.
 - * What Actually Helps with Relevance: Other methods, like content filtering, guardrails, or manual review, can directly impact the relevance of the model's responses by ensuring the model focuses on pertinent financial content. These methods help tailor the LLM's responses to the financial domain and avoid irrelevant or harmful outputs.
 - * Why Other Options Are More Relevant:
 - * A (Comprehensive Guardrail Framework): This will ensure that the model avoids generating content that is irrelevant or inappropriate in the finance sector.
 - * C (Profanity Filter): While not directly related to financial relevancy, ensuring the output is clean and professional is still important in maintaining the quality of responses.
 - * D (Manual Review): Incorporating human oversight to catch and correct issues with the LLM's output ensures the final answers are aligned with financial content expectations.
- Thus, increasing compute power does not help with ensuring the outputs are more relevant to financial news, making option B the correct answer.

NEW QUESTION # 42

A Generative AI Engineer is building an LLM-based application that has an important transcription (speech-to-text) task. Speed is essential for the success of the application Which open Generative AI models should be used?

- **A. whisper-large-v3 (1.6B)**
- B. DBRX

- C. Llama-2-70b-chat-hf
- D. MPT-30B-Instruct

Answer: A

Explanation:

The task requires an open generative AI model for a transcription (speech-to-text) task where speed is essential. Let's assess the options based on their suitability for transcription and performance characteristics, referencing Databricks' approach to model selection.

* Option A: Llama-2-70b-chat-hf

* Llama-2 is a text-based LLM optimized for chat and text generation, not speech-to-text. It lacks transcription capabilities.

* Databricks Reference: "Llama models are designed for natural language generation, not audio processing" ("Databricks Model Catalog").

* Option B: MPT-30B-Instruct

* MPT-30B is another text-based LLM focused on instruction-following and text generation, not transcription. It's irrelevant for speech-to-text tasks.

* Databricks Reference: No specific mention, but MPT is categorized under text LLMs in Databricks' ecosystem, not audio models.

* Option C: DBRX

* DBRX, developed by Databricks, is a powerful text-based LLM for general-purpose generation.

It doesn't natively support speech-to-text and isn't optimized for transcription.

* Databricks Reference: "DBRX excels at text generation and reasoning tasks" ("Introducing DBRX," 2023)-no mention of audio capabilities.

* Option D: whisper-large-v3 (1.6B)

* Whisper, developed by OpenAI, is an open-source model specifically designed for speech-to-text transcription. The "large-v3" variant (1.6 billion parameters) balances accuracy and efficiency, with optimizations for speed via quantization or deployment on GPUs-key for the application's requirements.

* Databricks Reference: "For audio transcription, models like Whisper are recommended for their speed and accuracy" ("Generative AI Cookbook," 2023). Databricks supports Whisper integration in its MLflow or Lakehouse workflows.

Conclusion: Only D. whisper-large-v3 is a speech-to-text model, making it the sole suitable choice. Its design prioritizes transcription, and its efficiency (e.g., via optimized inference) meets the speed requirement, aligning with Databricks' model deployment best practices.

NEW QUESTION # 43

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. Repetition of responses
- **B. Diversity of responses**
- C. Lack of relevance
- D. Randomness

Answer: B

Explanation:

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.

NEW QUESTION # 44

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