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

Topic	Details
Topic 1	• Governance: Generative AI Engineers who take the exam get knowledge about masking techniques, guardrail techniques, and legal • licensing requirements in this topic.
Topic 2	• 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 3	• 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.
Topic 4	• 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 5	• 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.

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Databricks Certified Generative AI Engineer Associate Sample Questions (Q53-Q58):

NEW QUESTION # 53
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LLM-generated analyses for any users who would like to have live summaries, rather than reading a series of potentially outdated news articles.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. Feature Serving
- B. AutoML
- C. DatabricksIQ
- D. Foundation Model APIs

Answer: A

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 # 54
A Generative Al 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 Al Engineer use to evaluate these two techniques?

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

Answer: C

NEW QUESTION # 55
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. Implement a safety filter that detects any harmful inputs and ask the LLM to respond that it is unable to assist
- B. Ask the LLM to remind the user that the input is malicious but continue the conversation with the user
- C. Increase the amount of compute that powers the LLM to process input faster
- D. Reduce the time that the users can interact with the LLM

Answer: A

Explanation:
In this case, the Generative AI Engineer is developing an application to generate personalized birthday poems, but there's a need to safeguard againstmalicious user inputs. The best solution is to implement asafety 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 asafety filterthat blocks harmful inputs is the most effective technique for safeguarding the application.

NEW QUESTION # 56
A Generative Al Engineer wants their (inetuned LLMs in their prod Databncks workspace available for testing in their dev workspace as well. All of their workspaces are Unity Catalog enabled and they are currently logging their models into the Model Registry in MLflow.
What is the most cost-effective and secure option for the Generative Al Engineer to accomplish their gAi?

- A. Use an external model registry which can be accessed from all workspaces
- B. Use MLflow to log the model directly into Unity Catalog, and enable READ access in the dev workspace to the model.
- C. Setup a script to export the model from prod and import it to dev.
- D. Setup a duplicate training pipeline in dev, so that an identical model is available in dev.

Answer: B

Explanation:
The goal is to make fine-tuned LLMs from a production (prod) Databricks workspace available for testing in a development (dev) workspace, leveraging Unity Catalog and MLflow, while ensuring cost-effectiveness and security. Let's analyze the options.
Option A: Use an external model registry which can be accessed from all workspaces An external registry adds cost (e.g., hosting fees) and complexity (e.g., integration, security configurations) outside Databricks' native ecosystem, reducing security compared to Unity Catalog's governance.
Databricks Reference: "Unity Catalog provides a centralized, secure model registry within Databricks" ("Unity Catalog Documentation," 2023).
Option B: Setup a script to export the model from prod and import it to dev Export/import scripts require manual effort, storage for model artifacts, and repeated execution, increasing operational cost and risk (e.g., version mismatches, unsecured transfers). It's less efficient than a native solution.
Databricks Reference: Manual processes are discouraged when Unity Catalog offers built-in sharing: "Avoid redundant workflows with Unity Catalog's cross-workspace access" ("MLflow with Unity Catalog").
Option C: Setup a duplicate training pipeline in dev, so that an identical model is available in dev Duplicating the training pipeline doubles compute and storage costs, as it retrains the model from scratch. It's neither cost-effective nor necessary when the prod model can be reused securely.

Databricks Reference: "Re-running training is resource-intensive; leverage existing models where possible" ("Generative AI Engineer Guide").
Option D: Use MLflow to log the model directly into Unity Catalog, and enable READ access in the dev workspace to the model Unity Catalog, integrated with MLflow, allows models logged in prod to be centrally managed and accessed across workspaces with fine-grained permissions (e.g., READ for dev). This is cost-effective (no extra infrastructure or retraining) and secure (governed by Databricks' access controls).
Databricks Reference: "Log models to Unity Catalog via MLflow, then grant access to other workspaces securely" ("MLflow Model Registry with Unity Catalog," 2023).
Conclusion: Option D leverages Databricks' native tools (MLflow and Unity Catalog) for a seamless, cost-effective, and secure solution, avoiding external systems, manual scripts, or redundant training.

NEW QUESTION # 57
A Generative Al 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. Add a regex expression on inputs and outputs to detect unsafe responses.
- B. Ask users to report unsafe responses
- C. Host Llama Guard on Foundation Model API and use it to detect unsafe responses
- D. Add some LLM calls to their chain to detect unsafe content before returning text

Answer: C

Explanation:
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.

NEW QUESTION # 58
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