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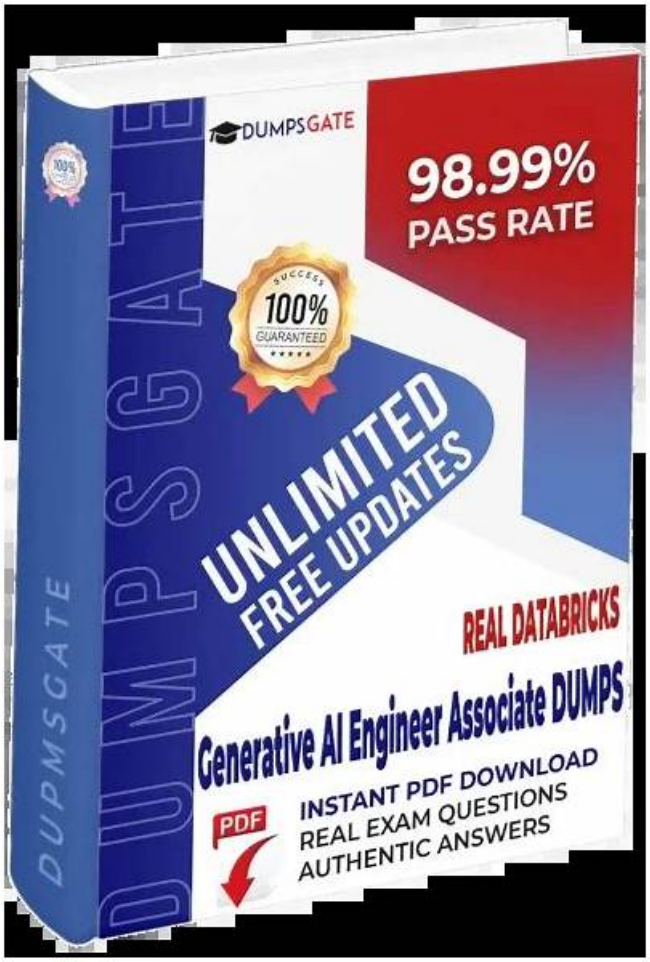


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## Databricks Databricks-Generative-AI-Engineer-Associate Exam Syllabus Topics:

| Topic | Details |
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| 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 | • 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 3 | • Governance: Generative AI Engineers who take the exam get knowledge about masking techniques, guardrail techniques, and legal<br>• licensing requirements in this topic. |
| Topic 4 | • Application Development: In this topic, Generative AI Engineers learn about tools needed to extract data, Langchain<br>• 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 5 | • 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. |



## Free Databricks-Generative-AI-Engineer-Associate Exam Questions Updates By GuideTorrent

This is much alike our Databricks-Generative-AI-Engineer-Associate exam with the only difference of providing services to our desktop users. It is compatible with Windows computers. Candidates find it easy to do self-assessment and they get maximum benefit by practicing Databricks Certified Generative AI Engineer Associate (Databricks-Generative-AI-Engineer-Associate) test available only here. The Databricks Certified Generative AI Engineer Associate (Databricks-Generative-AI-Engineer-Associate) questions provided here are compiled by over 90,000 competent professionals who handpicked all of these questions for your evaluation and concept-building.

## Databricks Certified Generative AI Engineer Associate Sample Questions (Q32-Q37):

**NEW QUESTION # 32**
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. Ask the LLM to remind the user that the input is malicious but continue the conversation with the user
- B. Increase the amount of compute that powers the LLM to process input faster
- C. Implement a safety filter that detects any harmful inputs and ask the LLM to respond that it is unable to assist
- D. Reduce the time that the users can interact with the LLM

**Answer: C**

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 # 33**
A Generative Al 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 Al models should be used?

- A. L!ama-2-70b-chat-hf
- B. DBRX
- C. MPT-30B-Instruct
- D. whisper-large-v3 (1.6B)

**Answer: D**

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: OnlyD. whisper-large-v3is 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 # 34**
A Generative Al Engineer is ready to deploy an LLM application written using Foundation Model APIs. They want to follow security best practices for production scenarios Which authentication method should they choose?

- A. Use an access token belonging to service principals
- B. Use OAuth machine-to-machine authentication
- C. Use a frequently rotated access token belonging to either a workspace user or a service principal

- D. Use an access token belonging to any workspace user

**Answer: A**

Explanation:
The task is to deploy an LLM application using Foundation Model APIs in a production environment while adhering to security best practices. Authentication is critical for securing access to Databricks resources, such as the Foundation Model API. Let's evaluate the options based on Databricks' security guidelines for production scenarios.
* Option A: Use an access token belonging to service principals
* Service principals are non-human identities designed for automated workflows and applications in Databricks. Using an access token tied to a service principal ensures that the authentication is scoped to the application, follows least-privilege principles (via role-based access control), and avoids reliance on individual user credentials. This is a security best practice for production deployments.
* Databricks Reference:"For production applications, use service principals with access tokens to authenticate securely, avoiding user-specific credentials"("Databricks Security Best Practices,"
2023). Additionally, the "Foundation Model API Documentation" states:"Service principal tokens are recommended for programmatic access to Foundation Model APIs."
* Option B: Use a frequently rotated access token belonging to either a workspace user or a service principal
* Frequent rotation enhances security by limiting token exposure, but tying the token to a workspace user introduces risks (e.g., user account changes, broader permissions). Including both user and service principal options dilutes the focus on application-specific security, making this less ideal than a service-principal-only approach. It also adds operational overhead without clear benefits over Option A.
* Databricks Reference:"While token rotation is a good practice, service principals are preferred over user accounts for application authentication"("Managing Tokens in Databricks," 2023).
* Option C: Use OAuth machine-to-machine authentication
* OAuth M2M (e.g., client credentials flow) is a secure method for application-to-service communication, often using service principals under the hood. However, Databricks' Foundation Model API primarily supports personal access tokens (PATs) or service principal tokens over full OAuth flows for simplicity in production setups. OAuth M2M adds complexity (e.g., managing refresh tokens) without a clear advantage in this context.
* Databricks Reference:"OAuth is supported in Databricks, but service principal tokens are simpler and sufficient for most API-based workloads"("Databricks Authentication Guide," 2023).
* Option D: Use an access token belonging to any workspace user
* Using a user's access token ties the application to an individual's identity, violating security best practices. It risks exposure if the user leaves, changes roles, or has overly broad permissions, and it's not scalable or auditable for production.
* Databricks Reference:"Avoid using personal user tokens for production applications due to security and governance concerns" ("Databricks Security Best Practices," 2023).
Conclusion: Option A is the best choice, as it uses a service principal's access token, aligning with Databricks' security best practices for production LLM applications. It ensures secure, application-specific authentication with minimal complexity, as explicitly recommended for Foundation Model API deployments.

**NEW QUESTION # 35**
A Generative Al Engineer is tasked with improving the RAG quality by addressing its inflammatory outputs.
Which action would be most effective in mitigating the problem of offensive text outputs?

- A. Curate upstream data properly that includes manual review before it is fed into the RAG system
- B. Inform the user of the expected RAG behavior
- C. Increase the frequency of upstream data updates
- D. Restrict access to the data sources to a limited number of users

**Answer: A**

Explanation:
Addressing offensive or inflammatory outputs in a Retrieval-Augmented Generation (RAG) system is critical for improving user experience and ensuring ethical AI deployment. Here's whyDis the most effective approach:
* Manual data curation: The root cause of offensive outputs often comes from the underlying data used to train the model or populate the retrieval system. By manually curating the upstream data and conducting thorough reviews before the data is fed into the RAG system, the engineer can filter out harmful, offensive, or inappropriate content.
* Improving data quality: Curating data ensures the system retrieves and generates responses from a high-quality, well-vetted dataset. This directly impacts the relevance and appropriateness of the outputs from the RAG system, preventing inflammatory content from being included in responses.

* Effectiveness: This strategy directly tackles the problem at its source (the data) rather than just mitigating the consequences (such as informing users or restricting access). It ensures that the system consistently provides non-offensive, relevant information.
Other options, such as increasing the frequency of data updates or informing users about behavior expectations, may not directly mitigate the generation of inflammatory outputs.

**NEW QUESTION # 36**
A Generative Al 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. Incorporate manual reviews to correct any problematic outputs prior to sending to the users
- B. Implement a comprehensive guardrail framework that includes policies for content filters tailored to the finance sector.
- 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 therelevanceof 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 inherentlyimprove therelevanceof 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 # 37**
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