

# Databricks Databricks-Generative-AI-Engineer-Associate Valid Exam Camp, Databricks-Generative-AI-Engineer-Associate Practice Exams Free



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

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

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### Databricks Certified Generative AI Engineer Associate Sample Questions (Q17-Q22):

#### NEW QUESTION # 17

A Generative AI Engineer is developing a patient-facing healthcare-focused chatbot. If the patient's question is not a medical emergency, the chatbot should solicit more information from the patient to pass to the doctor's office and suggest a few relevant pre-approved medical articles for reading. If the patient's question is urgent, direct the patient to calling their local emergency services.

Given the following user input:

"I have been experiencing severe headaches and dizziness for the past two days." Which response is most appropriate for the chatbot to generate?

- **A. Please call your local emergency services.**
- B. Please provide your age, recent activities, and any other symptoms you have noticed along with your headaches and dizziness.
- C. Headaches can be tough. Hope you feel better soon!
- D. Here are a few relevant articles for your browsing. Let me know if you have questions after reading them.

**Answer: A**

Explanation:

\* Problem Context: The task is to design responses for a healthcare-focused chatbot that appropriately addresses the urgency of a patient's symptoms.

\* Explanation of Options:

\* Option A: Suggesting articles might be suitable for less urgent inquiries but is inappropriate for symptoms that could indicate a serious condition.

\* Option B: Given the description of severe symptoms like headaches and dizziness, directing the patient to emergency services is prudent. This aligns with medical guidelines that recommend immediate professional attention for such severe symptoms.

\* Option C: Offering well-wishes does not address the potential seriousness of the symptoms and lacks appropriate action.

\* Option D: While gathering more information is part of a detailed assessment, the immediate need here suggests a more urgent response.

Given the potential severity of the described symptoms, Option B is the most appropriate, ensuring the chatbot directs patients to seek urgent care when needed, potentially saving lives.

#### NEW QUESTION # 18

What is the most suitable library for building a multi-step LLM-based workflow?

- **A. LangChain**
- B. TensorFlow
- C. Pandas
- D. PySpark

**Answer: A**

Explanation:

\* Problem Context: The Generative AI Engineer needs a tool to build a multi-step LLM-based workflow. This type of workflow often involves chaining multiple steps together, such as query generation, retrieval of information, response generation, and post-processing, with LLMs integrated at several points.

\* Explanation of Options:

\* Option A: Pandas: Pandas is a powerful data manipulation library for structured data analysis, but it is not designed for managing or orchestrating multi-step workflows, especially those involving LLMs.

- \* Option B: TensorFlow: TensorFlow is primarily used for training and deploying machine learning models, especially deep learning models. It is not designed for orchestrating multi-step tasks in LLM-based workflows.
  - \* Option C: PySpark: PySpark is a distributed computing framework used for large-scale data processing. While useful for handling big data, it is not specialized for chaining LLM-based operations.
  - \* Option D: LangChain: LangChain is a purpose-built framework designed specifically for orchestrating multi-step workflows with large language models (LLMs). It enables developers to easily chain different tasks, such as retrieving documents, summarizing information, and generating responses, all in a structured flow. This makes it the best tool for building complex LLM-based workflows.
- Thus, LangChain is the most suitable library for creating multi-step LLM-based workflows.

## NEW QUESTION # 19

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

**Answer: C**

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 # 20

A Generative AI Engineer is working with a retail company that wants to enhance its customer experience by automatically handling common customer inquiries. They are working on an LLM-powered AI solution that should improve response times while

maintaining a personalized interaction. They want to define the appropriate input and LLM task to do this. Which input/output pair will do this?

- A. Input: Customer reviews; Output Group the reviews by users and aggregate per-user average rating, then respond
- **B. Input: Customer service chat logs; Output: Find the answers to similar questions and respond with a summary**
- C. Input: Customer service chat logs; Output Group the chat logs by users, followed by summarizing each user's interactions, then respond
- D. Input: Customer reviews: Output Classify review sentiment

**Answer: B**

Explanation:

The task described in the question involves enhancing customer experience by automatically handling common customer inquiries using an LLM-powered AI solution. This requires the system to process input data (customer inquiries) and generate personalized, relevant responses efficiently. Let's evaluate the options step-by-step in the context of Databricks Generative AI Engineer principles, which emphasize leveraging LLMs for tasks like question answering, summarization, and retrieval-augmented generation (RAG).

Option A: Input: Customer reviews; Output: Group the reviews by users and aggregate per-user average rating, then respond This option focuses on analyzing customer reviews to compute average ratings per user. While this might be useful for sentiment analysis or user profiling, it does not directly address the goal of handling common customer inquiries or improving response times for personalized interactions. Customer reviews are typically feedback data, not real-time inquiries requiring immediate responses.

Databricks Reference: Databricks documentation on LLMs (e.g., "Building LLM Applications with Databricks") emphasizes that LLMs excel at tasks like question answering and conversational responses, not just aggregation or statistical analysis of reviews.

Option B: Input: Customer service chat logs; Output: Group the chat logs by users, followed by summarizing each user's interactions, then respond This option uses chat logs as input, which aligns with customer service scenarios. However, the output-grouping by users and summarizing interactions-focuses on user-specific summaries rather than directly addressing inquiries. While summarization is an LLM capability, this approach lacks the specificity of finding answers to common questions, which is central to the problem.

Databricks Reference: Per Databricks' "Generative AI Cookbook," LLMs can summarize text, but for customer service, the emphasis is on retrieval and response generation (e.g., RAG workflows) rather than user interaction summaries alone.

Option C: Input: Customer service chat logs; Output: Find the answers to similar questions and respond with a summary This option uses chat logs (real customer inquiries) as input and tasks the LLM with identifying answers to similar questions, then providing a summarized response. This directly aligns with the goal of handling common inquiries efficiently while maintaining personalization (by referencing past interactions or similar cases). It leverages LLM capabilities like semantic search, retrieval, and response generation, which are core to Databricks' LLM workflows.

Databricks Reference: From Databricks documentation ("Building LLM-Powered Applications," 2023), an exact extract states:

"For customer support use cases, LLMs can be used to retrieve relevant answers from historical data like chat logs and generate concise, contextually appropriate responses." This matches Option C's approach of finding answers and summarizing them

Option D: Input: Customer reviews; Output: Classify review sentiment

This option focuses on sentiment classification of reviews, which is a valid LLM task but unrelated to handling customer inquiries or improving response times in a conversational context. It's more suited for feedback analysis than real-time customer service.

Databricks Reference: Databricks' "Generative AI Engineer Guide" notes that sentiment analysis is a common LLM task, but it's not highlighted for real-time conversational applications like customer support.

Conclusion: Option C is the best fit because it uses relevant input (chat logs) and defines an LLM task (finding answers and summarizing) that meets the requirements of improving response times and maintaining personalized interaction. This aligns with Databricks' recommended practices for LLM-powered customer service solutions, such as retrieval-augmented generation (RAG) workflows.

## NEW QUESTION # 21

A Generative AI Engineer is helping a cinema extend its website's chat bot to be able to respond to questions about specific showtimes for movies currently playing at their local theater. They already have the location of the user provided by location services to their agent, and a Delta table which is continually updated with the latest showtime information by location. They want to implement this new capability In their RAG application.

Which option will do this with the least effort and in the most performant way?

- A. Query the Delta table directly via a SQL query constructed from the user's input using a text-to-SQL LLM in the agent logic / tool
- B. Set up a task in Databricks Workflows to write the information in the Delta table periodically to an external database such as MySQL and query the information from there as part of the agent logic / tool implementation.
- C. implementation. Write the Delta table contents to a text column.then embed those texts using an embedding model and store these in the vector index Look up the information based on the embedding as part of the agent logic / tool implementation.

- **D. Create a Feature Serving Endpoint from a FeatureSpec that references an online store synced from the Delta table. Query the Feature Serving Endpoint as part of the agent logic / tool implementation.**

**Answer: D**

Explanation:

The task is to extend a cinema chatbot to provide movie showtime information using a RAG application, leveraging user location and a continuously updated Delta table, with minimal effort and high performance. Let's evaluate the options.

Option A: Create a Feature Serving Endpoint from a FeatureSpec that references an online store synced from the Delta table. Query the Feature Serving Endpoint as part of the agent logic / tool implementation Databricks Feature Serving provides low-latency access to real-time data from Delta tables via an online store. Syncing the Delta table to a Feature Serving Endpoint allows the chatbot to query showtimes efficiently, integrating seamlessly into the RAG agent's tool logic. This leverages Databricks' native infrastructure, minimizing effort and ensuring performance.

Databricks Reference: "Feature Serving Endpoints provide real-time access to Delta table data with low latency, ideal for production systems" ("Databricks Feature Engineering Guide," 2023).

Option B: Query the Delta table directly via a SQL query constructed from the user's input using a text-to-SQL LLM in the agent logic / tool Using a text-to-SQL LLM to generate queries adds complexity (e.g., ensuring accurate SQL generation) and latency (LLM inference + SQL execution). While feasible, it's less performant and requires more effort than a pre-built serving solution.

Databricks Reference: "Direct SQL queries are flexible but may introduce overhead in real-time applications" ("Building LLM Applications with Databricks").

Option C: Write the Delta table contents to a text column, then embed those texts using an embedding model and store these in the vector index. Look up the information based on the embedding as part of the agent logic / tool implementation Converting structured Delta table data (e.g., showtimes) into text, embedding it, and using vector search is inefficient for structured lookups. It's effort-intensive (preprocessing, embedding) and less precise than direct queries, undermining performance.

Databricks Reference: "Vector search excels for unstructured data, not structured tabular lookups" ("Databricks Vector Search Documentation").

Option D: Set up a task in Databricks Workflows to write the information in the Delta table periodically to an external database such as MySQL and query the information from there as part of the agent logic / tool implementation Exporting to an external database (e.g., MySQL) adds setup effort (workflow, external DB management) and latency (periodic updates vs. real-time). It's less performant and more complex than using Databricks' native tools.

Databricks Reference: "Avoid external systems when Delta tables provide real-time data natively" ("Databricks Workflows Guide").

Conclusion: Option A minimizes effort by using Databricks Feature Serving for real-time, low-latency access to the Delta table, ensuring high performance in a production-ready RAG chatbot.

## NEW QUESTION # 22

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