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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	• 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	• 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 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.

Databricks Certified Generative AI Engineer Associate Sample Questions (Q67-Q72):

NEW QUESTION # 67
A Generative AI Engineer is testing a simple prompt template in LangChain using the code below, but is getting an error:
Python
from langchain.chains import LLMChain
from langchain_community.llms import OpenAI
from langchain_core.prompts import PromptTemplate
prompt_template = "Tell me a {adjective} joke"
prompt = PromptTemplate(input_variables=["adjective"], template=prompt_template)
# ... (Error-prone section)
Assuming the API key was properly defined, what change does the Generative AI Engineer need to make to fix their chain?

- A. (Incorrect structure)
- B. prompt_template = "Tell me a {adjective} joke"
  prompt = PromptTemplate(input_variables=["adjective"], template=prompt_template) llm = OpenAI() llm_chain = LLMChain(prompt=prompt, llm=llm) llm_chain.generate([{"adjective": "funny"}])
- C. (Incorrect structure)
- D. (Incorrect structure)

Answer: B

Explanation:
The error in the original snippet usually stems from the improper instantiation of the LLMChain or the incorrect call to the .generate() method. In LangChain, an LLMChain requires two primary components: an LLM (the engine) and a Prompt (the template). Option C provides the correct syntax: first, the PromptTemplate is defined with the correct input_variables. Second, the OpenAI model is instantiated. Third, the LLMChain binds the model and the prompt together. Finally, the .generate() method expects a list of dictionaries, where each dictionary represents a set of inputs for the prompt variables. Options A, B, and D in the original image contain syntax errors such as passing the variable directly into the chain initialization or missing the dictionary list format required by the standard LangChain API for batch-like generation.

NEW QUESTION # 68
A Generative AI Engineer is experimenting with using parameters to configure an agent in Mosaic Agent Framework. However, they are struggling to get the agent to respond with relevant information with this configuration:
config = {"prompt_template": "You are a trivia bot. Generate a question based on the user's input: {user_input}", "input_vars": ["user_input"], "parameters": {"temperature": 0.01, "max_tokens": 500}} Which error is causing the problem?

- A. The prompt does not parse the user's input vars
- B. The prompt does not list available agents for the LLM to call
- C. The prompt does not set the retriever schema
- D. The prompt is not wrapped in ChatModel

Answer: A

Explanation:
In the Mosaic AI Agent Framework and underlying LangChain-based configurations, the "input_vars" or "input_variables" must be correctly mapped and referenced within the template. If the configuration dictionary identifies user_input as the variable but the logic executing the chain does not correctly "inject" the runtime value into the {user_input} placeholder, the LLM will receive a literal string (or an empty value) rather than the user's actual question. This results in the model failing to provide relevant information because it essentially doesn't know what the user asked. Engineering standards require ensuring that the key used in the input_vars list matches the key in the JSON payload sent to the model serving endpoint. If there is a mismatch or a failure to parse, the prompt remains static, leading to generic or irrelevant responses.

NEW QUESTION # 69
A Generative AI Engineer I using the code below to test setting up a vector store:
Assuming they intend to use Databricks managed embeddings with the default embedding model, what should be the next logical function call?

- A. vsc.similarity_search()
- B. vsc.get_index()
- C. vsc.create_direct_access_index()
- D. vsc.create_delta_sync_index()

Answer: D

Explanation:
* Context: The Generative AI Engineer is setting up a vector store using Databricks' VectorSearchClient. This is typically done to enable fast and efficient retrieval of vectorized data for tasks like similarity searches.
* Explanation of Options:
Option A: vsc.get_index(): This function would be used to retrieve an existing index, not create one, so it would not be the logical next step immediately after creating an endpoint.
Option B: vsc.create_delta_sync_index(): After setting up a vector store endpoint, creating an index is necessary to start populating and organizing the data. The create_delta_sync_index() function specifically creates an index that synchronizes with a Delta table, allowing automatic updates as the data changes. This is likely the most appropriate choice if the engineer plans to use dynamic data that is updated over time.
Option C: vsc.create_direct_access_index(): This function would create an index that directly accesses the data without synchronization. While also a valid approach, it's less likely to be the next logical step if the default setup (typically accommodating changes) is intended.
Option D: vsc.similarity_search(): This function would be used to perform searches on an existing index; however, an index needs to be created and populated with data before any search can be conducted.
Given the typical workflow in setting up a vector store, the next step after creating an endpoint is to establish an index, particularly one that synchronizes with ongoing data updates, hence Option B.

NEW QUESTION # 70
After changing the response generating LLM in a RAG pipeline from GPT-4 to a model with a shorter context length that the company self-hosts, the Generative AI Engineer is getting the following error:
What TWO solutions should the Generative AI Engineer implement without changing the response generating model? (Choose two.)

- A. Retrain the response generating model using ALiBi
- B. Reduce the maximum output tokens of the new model

- C. Reduce the number of records retrieved from the vector database
- D. Decrease the chunk size of embedded documents
- E. Use a smaller embedding model to generate

Answer: C,D

Explanation:
Problem Context: After switching to a model with a shorter context length, the error message indicating that the prompt token count has exceeded the limit suggests that the input to the model is too large.
Explanation of Options:
Option A: Use a smaller embedding model to generate - This wouldn't necessarily address the issue of prompt size exceeding the model's token limit.
Option B: Reduce the maximum output tokens of the new model - This option affects the output length, not the size of the input being too large.
Option C: Decrease the chunk size of embedded documents - This would help reduce the size of each document chunk fed into the model, ensuring that the input remains within the model's context length limitations.
Option D: Reduce the number of records retrieved from the vector database - By retrieving fewer records, the total input size to the model can be managed more effectively, keeping it within the allowable token limits.
Option E: Retrain the response generating model using ALiBi - Retraining the model is contrary to the stipulation not to change the response generating model.
Options C and D are the most effective solutions to manage the model's shorter context length without changing the model itself, by adjusting the input size both in terms of individual document size and total documents retrieved.

NEW QUESTION # 71
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. Restrict access to the data sources to a limited number of users
- B. Increase the frequency of upstream data updates
- C. Inform the user of the expected RAG behavior
- D. Curate upstream data properly that includes manual review before it is fed into the RAG system

Answer: D

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 # 72
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