

Generative-AI-Leader Latest Dumps Pdf | Generative-AI-Leader Test Book



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Google Generative-AI-Leader Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Google Cloud's Generative AI Offerings: This section of the exam measures the skills of Cloud Architects and highlights Google Cloud's strengths in generative AI. It emphasizes Google's AI-first approach, enterprise-ready platform, and open ecosystem. Candidates will learn about Google's AI infrastructure, including TPUs, GPUs, and data centers, and how the platform provides secure, scalable, and privacy-conscious solutions. The section also explores prebuilt AI tools such as Gemini, Workspace integrations, and Agentspace, while demonstrating how these offerings enhance customer experience and empower developers to build with Vertex AI, RAG capabilities, and agent tooling.
Topic 2	<ul style="list-style-type: none">Fundamentals of Generative AI: This section of the exam measures the skills of AI Engineers and focuses on the foundational concepts of generative AI. It covers the basics of artificial intelligence, natural language processing, machine learning approaches, and the role of foundation models. Candidates are expected to understand the machine learning lifecycle, data quality, and the use of structured and unstructured data. The section also evaluates knowledge of business use cases such as text, image, code, and video generation, along with the ability to identify when and how to select the right model for specific organizational needs.

Topic 3	<ul style="list-style-type: none"> Techniques to Improve Generative AI Model Output: This section of the exam measures the skills of AI Engineers and focuses on improving model reliability and performance. It introduces best practices to address common foundation model limitations such as bias, hallucinations, and data dependency, using methods like retrieval-augmented generation, prompt engineering, and human-in-the-loop systems. Candidates are also tested on different prompting techniques, grounding approaches, and the ability to configure model settings such as temperature and token count to optimize results.
Topic 4	<ul style="list-style-type: none"> Business Strategies for a Successful Generative AI Solution: This section of the exam measures the skills of Cloud Architects and evaluates the ability to design, implement, and manage enterprise-level generative AI solutions. It covers the decision-making process for selecting the right solution, integrating AI into an organization, and measuring business impact. A strong emphasis is placed on secure AI practices, highlighting Google's Secure AI Framework and cloud security tools, as well as the importance of responsible AI, including fairness, transparency, privacy, and accountability.

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Google Cloud Certified - Generative AI Leader Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

A financial institution uses generative AI (gen AI) to approve and reject loan applications, but gives no reasons for rejection. Customers are starting to file complaints. The company needs to implement a solution to reduce the complaints. What should the company do?

- A. Implement explainable gen AI policies.**
- B. Collect a larger and more diverse dataset for the gen AI model.
- C. Develop fairness assessments for the gen AI model.
- D. Fine-tune the gen AI model.

Answer: A

Explanation:

The core problem is the lack of reasons for rejection, leading to customer complaints. This falls under the domain of explainable AI (XAI). Implementing explainable gen AI policies or mechanisms would allow the institution to provide transparency into how the AI made its decision, addressing the customer complaints directly. While other options might improve the model, they don't directly solve the transparency issue.

NEW QUESTION # 39

A company is developing a conversational AI chatbot. They need to ensure the chatbot can engage in human-like conversations and provide accurate information. What should they do to enhance the chatbot's ability to understand and respond effectively to user prompts?

- A. Limit the chatbot's training data to prevent it from learning irrelevant information.
- B. Lower model temperature setting to produce more consistent and predictable responses.
- C. Use strict keyword matching to ensure that the chatbot only responds to specific commands.
- D. Use prompt engineering techniques, like few-shot prompting, to provide the chatbot with examples of successful interactions.**

Answer: D

Explanation:

Prompt engineering, especially techniques like few-shot prompting (providing examples of desired input-output pairs), is crucial for guiding a generative AI model to understand context and generate relevant, human-like responses. Limiting data or using strict keyword matching would severely restrict the chatbot's conversational ability, and lowering temperature makes responses less creative, not necessarily more understanding.

NEW QUESTION # 40

What is a key advantage of using Google's custom-designed TPUs?

- A. TPUs increase the storage capacity and data retrieval speeds within Google Cloud data centers.
- **B. TPUs are specialized AI processors that excel at parallel processing for machine learning workloads.**
- C. TPUs are primarily designed to improve the general processing speed of virtual machines in the cloud.
- D. TPUs are lightweight processors intended for deployment on edge devices.

Answer: B

Explanation:

TPUs (Tensor Processing Units) are custom-designed hardware accelerators developed by Google specifically for high-performance machine learning tasks. Their advantage lies in their architecture, which is optimized for the massively parallel matrix multiplication operations that form the mathematical backbone of deep learning and large language models (LLMs).

TPUs excel at parallel processing (C) for training and running machine learning workloads, allowing computations to be performed simultaneously across numerous cores. This makes them significantly faster and more efficient than traditional CPUs or even general-purpose GPUs for tasks like training massive generative models (e.g., Gemini).

TPUs are a core component of the Infrastructure Layer in the Generative AI landscape, providing the foundational compute resources.

While Google offers very small, specialized TPUs for the edge (like Edge TPU), the primary, large-scale advantage is in the cloud for accelerating training and inference for complex ML models.

Options A describes the Edge TPU or Gemini Nano deployment strategy, not the general, key advantage. Options B and D misrepresent the function, as TPUs are compute hardware, not storage accelerators or general-purpose CPU replacements. (Reference: Google's training materials on the Generative AI Infrastructure Layer explicitly list TPUs and GPUs as the physical hardware components providing the core computing resources needed for generative AI, with TPUs being specialized for accelerating ML workloads and parallel processing.)

NEW QUESTION # 41

A team is using a generative AI model to automatically generate short summaries of customer feedback. They need to ensure that these summaries are concise and easy to digest. What model setting should they adjust?

- A. Safety settings
- B. Temperature
- C. Top-p (nucleus sampling)
- **D. Output length**

Answer: D

Explanation:

The objective is to make the generated summaries concise—that is, to control their length.

In the configuration of a generative AI model, particularly a large language model (LLM), the parameter used to directly control the maximum size of the response is the Output Length parameter (often referred to as `max_output_tokens` or `max_tokens`). By setting a low limit on this parameter, the team can ensure that the model is forced to terminate its response once that limit is reached, resulting in a shorter, more concise summary that is "easy to digest," as requested.

The other parameters control different aspects of the output quality:

Temperature (C) controls the creativity or randomness of the output. Lowering it makes the output more predictable; raising it makes it more diverse. It does not control length.

Top-p (A) is a decoding method related to temperature that also controls the model's creativity by limiting the vocabulary from which it can choose the next token. It does not control length.

Safety settings (B) are used to filter and block the generation of harmful, illegal, or inappropriate content. They do not affect the length or conciseness of the output.

(Reference: Google Cloud's Generative AI documentation on model parameters explicitly lists `max_output_tokens` or Output Length as the setting used to determine the maximum size of a model's generated response.)

NEW QUESTION # 42

A human resources team is implementing a new generative AI application to assist the department in screening a large volume of job applications. They want to ensure fairness and build trust with potential candidates. What should the team prioritize?

- A. Ensuring AI operates transparently, especially regarding application evaluation and data usage.
- B. Ensuring that the AI application can automatically rank all candidates without requiring human review.
- C. Integrating the AI application with various job boards to maximize candidate reach.
- D. Focusing on minimizing the processing time for each application to improve efficiency.

Answer: A

Explanation:

To ensure fairness and build trust, especially in sensitive areas like job applications, transparency in how AI evaluates applications and uses data is paramount. This involves understanding potential biases, explaining decisions (where possible), and ensuring human oversight.

NEW QUESTION # 43

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