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| 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"> 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. |

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Google Cloud Certified - Generative AI Leader Exam Sample Questions (Q23-Q28):

NEW QUESTION # 23

What is a characteristic of Google Cloud as a generative AI company?

- A. Google Cloud ensures that all generative AI models and data are completely secured and isolated from external networks.
- B. Google Cloud relies on proprietary, closed-source AI technologies for maximum security benefits.
- C. Google Cloud has an AI-first focus that enables innovation, with continuous updates and broad integration across its platform.
- D. Google Cloud provides fully autonomous AI agents that require zero configuration or management overhead.

Answer: C

Explanation:

Google Cloud emphasizes an AI-first approach, integrating AI capabilities across its services and consistently innovating with new models and features. While security is a high priority, fully autonomous AI agents requiring zero configuration are generally not the norm, and "completely secured and isolated from external networks" is an oversimplification of cloud security models. Google also contributes to and supports open- source AI initiatives, not solely relying on proprietary closed-source technologies.

NEW QUESTION # 24

What is the definition of generative AI?

- A. A type of artificial intelligence that enables a system to autonomously learn and improve using neural networks and deep learning.
- B. A type of predictive model that estimates a relationship by fitting a line to the observed data.
- C. A type of artificial intelligence that can create new content and ideas, including text, images, music, and code.
- D. A type of machine learning algorithm inspired by the human brain that is made up of interconnected nodes.

Answer: C

Explanation:

The defining characteristic of generative AI is its ability to create new, original content that resembles its training data. This includes various modalities like text, images, music, and code, rather than just classifying, predicting, or analyzing existing data.

NEW QUESTION # 25

According to Google-recommended practices, when should generative AI be used to automate tasks?

- **A. When tasks are repetitive and rule-based.**
- B. When tasks are complex and require strategic decision-making.
- C. When tasks are highly creative and require original thought.
- D. When tasks involve sensitive information or require human oversight

Answer: A

Explanation:

The strategic value of Generative AI (Gen AI) in a business context, as taught in Google's courses, is primarily to enhance efficiency and productivity by taking over tasks that consume significant employee time.

Gen AI excels in automating tasks that:

Are repetitive and time-consuming, such as drafting initial emails, summarizing long documents, or generating code snippets.

Automating these routine tasks (C) frees employees to focus on higher-value activities (like building customer relationships or strategic planning).

Involve the generation of new content based on patterns learned from large datasets (e.g., text, images, code).

Options A and D represent high-value, strategic work-highly creative or complex strategic decision-making-where human judgment and oversight remain paramount. While Gen AI can assist with these (e.g., brainstorming creative ideas or providing data-backed insights), it is generally not recommended for full automation. Option B explicitly requires human oversight due to its sensitive nature.

Therefore, the best fit for full or augmented automation for efficiency is the handling of routine, repeatable, and non-complex tasks.

(Reference: Google Cloud documentation on Gen AI adoption and efficiency states that Gen AI transforms work by automating repetitive and time-consuming tasks to free up time for strategic thinking and creativity.)

NEW QUESTION # 26

A nonprofit news analytics lab is building a generative AI platform and wants the freedom to combine open-source models and tooling with managed Google Cloud services. They want to minimize vendor lock-in and benefit from innovations created by the wider AI community. Which characteristic of Google Cloud's generative AI strategy would most appeal to this lab?

- A. Enterprise security and compliance capabilities
- **B. An open ecosystem that supports open-source models, tools, and interoperability**
- C. Prebuilt industry solutions for common generative AI use cases
- D. Custom TPUs tuned for select Google model families

Answer: B

Explanation:

This approach directly aligns with the lab's goal to combine open source models and community tooling with managed Google Cloud services while keeping portability. It reduces vendor lock in by allowing teams to run and swap models across environments, benefit from community innovations, and integrate with services like Vertex AI and GKE without being tied to a single proprietary stack.

Interoperability across frameworks and infrastructure is the central advantage that addresses the scenario requirements.

NEW QUESTION # 27

A software developer needs a highly efficient, open-source large language model that can be fine-tuned on a local machine for rapid prototyping of a chatbot application. They require a model that offers strong performance in natural language understanding and generation, while being lightweight enough to run on limited hardware. Which Google-developed family of models should they use?

- A. Gemini
- B. Imagen
- **C. Gemma**
- D. Veo

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