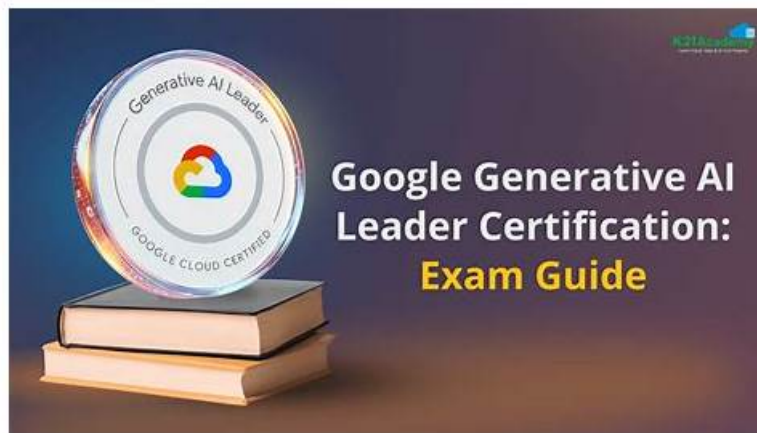


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Google Generative-AI-Leader Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<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 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 (Q18-Q23):

NEW QUESTION # 18

A marketing team wants to use a generative AI model to create product descriptions for their new line of eco-friendly water bottles. They provide a brief prompt stating, "Write a product description for our new water bottle." The model generates a generic, lackluster description that is factually accurate but lacks engaging language and doesn't highlight the environmental benefits that are key to their brand. What should the marketing team do to overcome this limitation of the generated product description?

- A. Increase the token count for the model to allow for longer descriptions.
- B. Train the model on a dataset of marketing materials from other eco-friendly brands.
- **C. Add details to the prompt about the audience, tone, and keywords.**
- D. Lower the temperature setting of the model to produce more consistent results.

Answer: C

Explanation:

The core problem described is a lackluster and generic output that fails to capture the desired tone and key information (environmental benefits). This is a classic limitation of zero-shot prompting (a brief, un-detailed prompt), where the generative AI model relies solely on its general training data and lacks the necessary context to produce a highly relevant and engaging response. The solution is to improve the quality of the prompt itself, a process known as Prompt Engineering.

NEW QUESTION # 19

A company wants to create an AI-powered educational solution that provides personalized learning experiences for students. This platform will assess a student's knowledge, recommend relevant learning materials, and generate personalized exercises. The application would provide the structure for lessons and track progress. What type of AI solution should they use?

- A. An AI-powered recommendation system for learning resources
- **B. A customized learning agent**
- C. A learning management system (LMS)
- D. A large language model fine-tuned on educational content

Answer: B

Explanation:

The request goes beyond just recommendations or content generation. It involves assessing knowledge, recommending materials, generating personalized exercises, providing lesson structure, and tracking progress. This implies a more comprehensive, intelligent

system that acts as an assistant or tutor for the student, which is best described as a customized learning agent. This agent would likely leverage LLMs and recommendation systems as components, but the overall solution is an agent.

NEW QUESTION # 20

A large company is creating their generative AI (gen AI) solution by using Google Cloud's offerings. They want to ensure that their mid-level managers contribute to a successful gen AI rollout by following Google-recommended practices. What should the mid-level managers do?

- A. Create a robust data strategy to ensure teams can access high-quality, relevant data that is appropriate for training and fine-tuning gen AI models.
- B. Secure funding and resources for AI initiatives by demonstrating the potential return on investment to the chief financial officer (CFO).
- C. Perform continuous testing, measurement, and refinement based on user feedback and real-world performance data.
- **D. Drive gen AI adoption by identifying high-impact, feasible solutions that address specific challenges within their workflows.**

Answer: D

Explanation:

Google's recommended strategy for a successful generative AI rollout involves a combination of top-down strategic alignment and bottom-up adoption. In this structure, the role of the mid-level manager is critical for driving tangible value within their specific domain.

NEW QUESTION # 21

An engineering team at example.com spends about 12 hours each week producing boilerplate and scaffolding for routine service endpoints, and they want an AI capability that can generate this repetitive code from concise requirements or from established patterns so the developers can concentrate on complex tasks. What primary use of generative AI does this scenario represent?

- A. Image generation
- **B. Automated code synthesis**
- C. Data analysis
- D. Personalized user experience

Answer: B

Explanation:

The scenario describes generating boilerplate and scaffolding from concise requirements or established patterns so developers can focus on more complex work.

This use case aligns with generative AI that produces source code from prompts or patterns. It automates repetitive implementation details, accelerates service setup, and helps teams reduce time spent on routine endpoint creation while maintaining consistency.

NEW QUESTION # 22

What are core hardware components of the infrastructure layer in the generative AI landscape?

- A. Pre-trained models
- B. User interfaces
- C. Tools and services for building AI models
- **D. TPUs and GPUs**

Answer: D

Explanation:

The Generative AI landscape is often broken down into several functional layers: Applications, Agents, Platforms, Models, and Infrastructure.

The Infrastructure Layer is the foundation, providing the physical and virtual computing resources necessary to run and train the large models. These resources include servers, storage, networking, and most importantly, the specialized hardware accelerators required for high-volume, parallel computation.

The core hardware components are the Graphics Processing Units (GPUs) and the custom-designed Tensor Processing Units (TPUs) (A). These accelerators are optimized for the massive matrix operations fundamental to deep learning and Gen AI model

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