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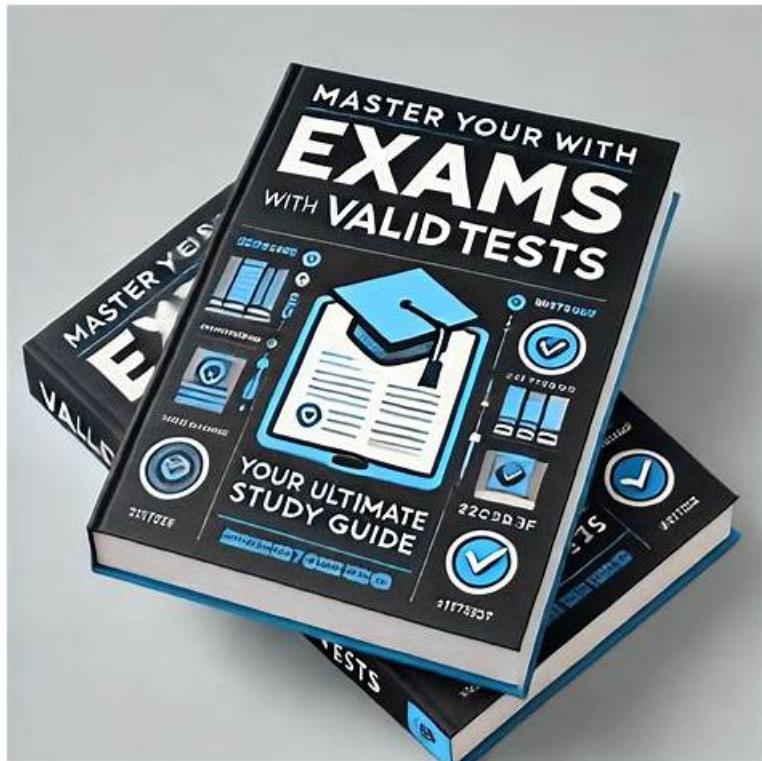
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Google Generative-AI-Leader Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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 4	• 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.

Google Cloud Certified - Generative AI Leader Exam Sample Questions (Q65-Q70):

NEW QUESTION # 65
A company wants to choose a generative AI (gen AI) use case that will be successful and have the most impact. What key factor should they determine first according to Google Cloud-recommended practices?

- A. The specific business problems the company aims to solve and the desired outcomes.
- B. The frequency of updates to the underlying foundation models used by different gen AI platforms.
- C. The availability of pre-trained models that are offered on various cloud computing platforms.
- D. The number of employees who will be trained to use the new gen AI tools.

Answer: A

Explanation:
According to Google's principles for successful AI adoption, organizations should adopt a "problem-first" approach to ensure their investments deliver measurable value. The strategic choice of a use case should always be motivated by a clear business imperative. Determining the specific business problems and desired outcomes (B) is the foundational step in any successful Gen AI strategy. Without a well-defined problem (e.g., "reduce customer response time by 30%") and a measurable desired outcome (e.g., "increase customer satisfaction scores"), any AI solution runs the risk of being a technology in search of a purpose, leading to limited adoption or failure to deliver meaningful ROI.
Options A, C, and D are considerations secondary to the initial strategic alignment:
Availability of models (C) only dictates the technical feasibility, not the business value.
Training employees (A) is a resource requirement, not the goal itself.
Model updates (D) is a technical concern related to model longevity, not the primary strategic driver for use case selection.
The priority is always to align the AI solution with high-value business objectives.
(Reference: Google Cloud Generative AI strategy guidelines state: "A fundamental principle for successful AI adoption, including

generative AI, is to start with clear business problems and desired outcomes. Without a well-defined problem, the AI solution might not deliver meaningful value, regardless of the technology used. This 'problem-first' approach is crucial for impactful AI strategy.")

NEW QUESTION # 66

A company is developing a generative AI application to analyze customer feedback collected through online surveys. Stakeholders are concerned about potential privacy risks associated with this data, as the feedback contains personally identifiable information (PII). They need to mitigate these risks before using the data to train the AI model. What action should the company prioritize?

- A. Applying data anonymization techniques to remove or obscure sensitive data.
- B. Focusing on collecting only quantitative feedback data in future surveys.
- C. Ensuring that the AI model is trained on a large and diverse dataset.
- D. Implementing strong access controls to limit which teams can view the raw survey data.

Answer: A

Explanation:
The problem is the existence of Personally Identifiable Information (PII) within the customer feedback data, which introduces privacy risks for the development and training of the generative AI model. The goal is to mitigate these risks before using the data to train the AI model.
According to Google's Responsible AI and data handling best practices, when sensitive data like PII is present in a dataset intended for model training, the most critical step to prioritize is data minimization and privacy protection at the source. This is often achieved through anonymization or de-identification.
Applying data anonymization techniques (D) directly addresses the risk by removing or obscuring the sensitive data elements. This prevents the PII from being embedded into the model's parameters during training, thereby eliminating the risk of data leakage or privacy violations in the AI application's outputs. This is a crucial early step in the ML lifecycle for datasets containing sensitive information.
Option C, implementing access controls, is a necessary security measure but is a reactive control that protects the raw data; it does not remove the PII risk from the derived model itself. Option A is a long-term change to data collection but doesn't solve the problem for the existing data. Option B relates to bias and accuracy, not specifically PII risk mitigation.
(Reference: Google Cloud's Secure AI Framework (SAIF) and Responsible AI principles emphasize protecting sensitive data at all stages of the ML lifecycle, with de-identification being the primary method before training.)

NEW QUESTION # 67

A company wants to choose a generative AI (gen AI) use case that will be successful and have the most impact. What key factor should they determine first according to Google Cloud-recommended practices?

- A. The specific business problems the company aims to solve and the desired outcomes.
- B. The frequency of updates to the underlying foundation models used by different gen AI platforms.
- C. The availability of pre-trained models that are offered on various cloud computing platforms.
- D. The number of employees who will be trained to use the new gen AI tools.

Answer: A

Explanation:
A fundamental principle for successful AI adoption, including generative AI, is to start with clear business problems and desired outcomes. Without a well-defined problem, the AI solution might not deliver meaningful value, regardless of the technology used. This "problem-first" approach is crucial for impactful AI strategy.

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NEW QUESTION # 68

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

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

Answer: C

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 # 69
The office of the CISO wants to use generative AI (gen AI) to help automate tasks like summarizing case information, researching threats, and taking actions like creating detection rules. What agent should they use?

- A. Data agent
- B. Customer service agent
- C. Security agent
- D. Code agent

Answer: C

Explanation:
Given the tasks

NEW QUESTION # 70
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Actual4dump designed this prep material to help you pass the exam on the first try. It may sound complicated, but once you go through regular study and intensive practice, passing the final exam would be a piece of cake. The cost of Google Cloud Certified - Generative AI Leader Exam (Generative-AI-Leader) certification itself is expensive, ranging from $100 to $1000, so you can't risk wasting that amount. Actual4dump ensures that this does not happen by providing you with reliable and updated preparation material.

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