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Google Generative-AI-Leader Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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	<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.

Google Cloud Certified - Generative AI Leader Exam Sample Questions (Q61-Q66):

NEW QUESTION # 61

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

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

Answer: C

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 training and inference.

Options B (User interfaces) and D (Tools and services) refer to the Application and Platform layers, respectively.

Option C (Pre-trained models) refers to the Model layer.

The physical hardware underpinning these abstract layers are the TPUs and GPUs.

(Reference: Google Cloud Generative AI Study Guides state that the Infrastructure Layer provides the core computing resources needed for generative AI, including the physical hardware (like servers, GPUs, and TPUs) and the essential software needed to train, store, and run AI models.)

NEW QUESTION # 62

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. Imagen

- B. Gemma
- C. Gemini
- D. Veo

Answer: B

Explanation:

Gemma is Google's family of lightweight, state-of-the-art open models, built from the same research and technology used to create the Gemini3 models. They are designed for developers to build innovative AI applications on their local machines or in the cloud, offering a balance of performance and efficiency suitable for limited hardware and rapid prototyping. Veo is for video generation, Gemini is typically larger and more general-purpose, and Imagen is for image generation.

NEW QUESTION # 63

A development team is configuring a generative AI model for a customer-facing application and wants to ensure the generated content is appropriate and harmless. What is the primary function of the safety settings parameter in a generative AI model?

- A. To control the creativity and randomness of the model's output by adjusting the diversity of word choices.
- B. To filter out potentially harmful or inappropriate content from the model's output based on the desired level of filtering.
- C. To limit the maximum text length that the model generates by ensuring concise responses.
- D. To determine the number of tokens the model can process at once by influencing the complexity and length of inputs and outputs.

Answer: B

Explanation:

Safety settings in generative AI models are specifically designed to prevent the generation of content that could be harmful, offensive, or inappropriate. This includes filtering for categories like hate speech, sexually explicit content, self-harm, and violence, based on predefined thresholds. Options A, B, and D refer to other parameters like max_output_tokens or temperature, which control output length, input/output processing, and creativity, respectively, not safety.

NEW QUESTION # 64

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

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

Answer: C

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 # 65

A company wants to build a model to classify customer reviews as positive, negative, or neutral. They have collected a dataset of thousands of customer reviews, and each review has been manually tagged with the corresponding sentiment: positive, negative, or neutral. What machine learning should the company use?

- A. Reinforcement learning
- B. Unsupervised learning
- C. Deep learning
- **D. Supervised learning**

Answer: D

Explanation:

The machine learning approach is determined by the nature of the data available and the desired output.

Data Available: Customer reviews (input) that are manually tagged with a sentiment category (output/label).

Desired Output: A model that can classify new, untagged reviews into one of the predefined categories (positive, negative, or neutral).

This scenario perfectly aligns with the definition of Supervised Learning (D). Supervised learning is the machine learning paradigm where the model is trained on a labeled dataset—a dataset where the input data is explicitly paired with the correct output label. The model learns a function that maps the input (the review text) to the output (the sentiment tag) and is then used to predict the label for unseen data.

Unsupervised Learning (B) is used for unlabeled data to find hidden patterns or groupings (clustering), which is not the goal here.

Reinforcement Learning (C) is used for training an agent through trial and error using a system of rewards and penalties.

Deep Learning (A) is a type of model (using deep neural networks) that can be used for supervised learning, but the learning approach required here is definitively supervised.

(Reference: Google's training materials on Machine Learning Approaches define Supervised Learning as training a model using labeled data to make predictions or classifications for new, unseen inputs. Sentiment analysis is a canonical example of a supervised learning classification task.)

NEW QUESTION # 66

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