

Generative-AI-Leader Training Online | Generative-AI-Leader Certification Exam

exam), Techniques to improve gen AI model output (~20% of the exam), Business strategies for a successful gen AI solution (~15% of the exam).

17. Key features of foundation models

Answer Trained on diverse data, flexible to a wide range of use cases, adaptable to specialized domains through additional, targeted training.

18. Generative AI capabilities

Answer Summarize, Discover, Automate, Create, Generate new content, Condense information into concise

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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"> 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 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"> 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.

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Google Cloud Certified - Generative AI Leader Exam Sample Questions (Q69-Q74):

NEW QUESTION # 69

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

- A. User interfaces
- B. Pre-trained models
- 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 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 # 70

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

- A. User interfaces
- B. Pre-trained models
- 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.

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

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NEW QUESTION # 71

A company wants to adopt generative AI and is concerned about vendor lock-in. They want to maintain flexibility in their technology stack. What Google Cloud strength would ease their concerns?

- A. Google Cloud's focus on automation aims to replace human jobs with AI systems, potentially leading to significant workforce reductions.
- B. Google Cloud's AI solutions are pre-packaged for easy deployment, eliminating the need for customization and integration efforts.
- C. Google Cloud's strict adherence to proprietary technologies ensures the highest level of security and performance.
- D. **Google Cloud's AI solutions have an open approach that supports customer choice across offerings.**

Answer: D

Explanation:

Google Cloud promotes an open and flexible approach to its AI offerings, supporting open standards, open-source initiatives (like TensorFlow, Kubernetes, and Gemma), and providing various integration options. This helps alleviate vendor lock-in concerns by giving customers choice and control over their technology stack.

NEW QUESTION # 72

A large e-commerce company with a vast and frequently updated product catalog finds that customers struggle to find products on their website, and support agents spend too much time finding detailed product information. The company wants to improve search accuracy and efficiency for both customers and support. What Google Cloud solution should they use?

- A. Vertex AI Model Garden
- B. Vertex AI Natural Language API

- C. Vertex AI Conversation
- D. Pre-built RAG with Vertex AI Search

Answer: D

Explanation:

This scenario strongly points to the need for accurate and up-to-date information retrieval from a product catalog. Pre-built RAG (Retrieval-Augmented Generation) combined with Vertex AI Search is the ideal solution. Vertex AI Search can index the product catalog, and RAG can then use this indexed data to ground the responses of a generative AI model, ensuring that both customer searches and support agent queries retrieve precise and relevant product information.

NEW QUESTION # 73

A data science team needs a centralized and organized location to store its various model versions, track their metadata, and easily deploy them to the respective applications. What Google Cloud service should they use?

- A. Cloud Storage
- B. BigQuery
- C. Model Registry
- D. Vertex AI Pipelines

Answer: C

Explanation:

A Model Registry (specifically part of Vertex AI Model Registry) is designed precisely for managing the lifecycle of machine learning models. It provides a centralized repository for storing, versioning, tracking metadata, and facilitating the deployment of models, which is essential for MLOps. Cloud Storage is for raw data, BigQuery for data warehousing, and Vertex AI Pipelines for workflow orchestration.

NEW QUESTION # 74

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