**Generative AI Leader Sample Questions**

Q1.

A human resources department deploys a generative AI (gen AI) model to screen job applications and provide a shortlist of candidates to recruiters. Recruiters notice that some seemingly qualified candidates are consistently being overlooked, but the AI provides no explanation for its rankings or exclusions. The company needs to address this lack of transparency. What should they do?

1. Collect a larger and more diverse dataset for the gen AI model.
2. Fine-tune the gen AI model.
3. Implement explainable gen AI policies.
4. Develop fairness assessments for the gen AI model.

**Correct answer**

Implement explainable gen AI policies.

**Feedback**

* *A is incorrect because, while a larger and more diverse dataset could potentially improve the model's accuracy and reduce bias, it does not inherently make the model's screening process transparent. Recruiters would still lack insight into why certain candidates are being shortlisted over others. While data quality is essential for ethical AI, it doesn't automatically provide explainability.*
* *B is incorrect because fine-tuning aims to optimize the model's performance on the screening task, but it doesn't necessarily reveal how the model is making its choices. Even if the shortlist improves after fine-tuning, the lack of transparency regarding the selection criteria remains. Fine-tuning focuses on improving task-specific performance, not on making the model's reasoning understandable.*
* *C is correct because it directly tackles the issue of unclear decision-making. Implementing explainable gen AI techniques would allow the HR department and recruiters to understand the factors that the AI model is using to rank and exclude candidates. This aligns with the principle that transparency is paramount for ethical applications and that users need to understand how AI systems make decisions. Explainable AI makes the decision-making processes of AI models transparent and understandable, which is crucial for building trust and identifying potential issues.*
* *D is incorrect because, while developing fairness assessments is important for ensuring the AI model is not discriminatory in its candidate selection, it does not directly address the need to understand why the model is making specific decisions. Assessing for fairness helps identify potential biases, but it doesn't explain the reasoning behind individual candidate rankings or exclusions.*

Q2:

A company wants to use generative AI (gen AI) to automate complex workflows and improve decision-making across its various departments. They are considering implementing AI agents as a key component of their strategy. What is the primary function of an AI agent in a gen AI system?

1. To provide the computing power for training and running advanced AI models.
2. To be the user interface for interacting with AI models.
3. To be a smart system that can analyze, use tools, and make decisions to reach goals.
4. To be a central storage place for the data that AI models use.

**Correct answer**

To be a smart system that can analyze, use tools, and make decisions to reach goals.

**Feedback**

* *A is incorrect because, while infrastructure is crucial for AI, its primary function is to provide the foundational computing resources, not to act as the intelligent decision-making component of an agent.*
* *B is incorrect because, while platforms like Vertex AI Studio offer interfaces for interacting with models, the primary function of an agent is the autonomous reasoning and action, not just the user interface. Agents use models, but they are more than just an interface.*
* *C is correct because AI agents are defined as entities that observe, act, and achieve goals by incorporating a reasoning loop and tools. A gen AI agent is an application that tries to achieve a goal by observing the world and acting upon it using the tools it has at its disposal. This highlights their ability to analyze situations and make decisions to fulfill objectives without constant human oversight. They leverage tools to interact with their environment and perform actions.*
* *D is incorrect because, while data storage is essential for AI, it is a separate function from the agent's ability to process information, reason, and take actions. Agents utilize data stores as tools, but their core function is not data management itself.*

Q3:

A grocery store chain has data in several internal systems like sales, inventory, and marketing. Employees waste time searching these systems for information on product performance, stock, and campaign effectiveness. They need a central way to easily access and understand data across these systems for better decisions and efficiency. Which Google Cloud offering should they use?

1. Gemini for Google Workspace
2. Google Agentspace
3. Vertex AI Search
4. Conversational Agents

**Correct answer**

Google Agentspace

**Feedback**

* *A is incorrect because Gemini for Google Workspace integrates generative AI features into productivity tools like Gmail, Docs, and Sheets to enhance individual and collaborative work within those applications. While helpful for tasks within these tools, it doesn't provide a centralized solution for accessing information across multiple disparate internal systems like Agentspace.*
* *B is correct because Google Agentspace is designed to help teams use their company's information more effectively by creating customized agents that can access and understand data from various sources, regardless of where that data is stored. This directly addresses the grocery store's need for a central platform where employees can easily find information across their sales, inventory, and marketing systems to improve decision-making and operational efficiency.*
* *C is incorrect because Vertex AI Search is designed for building search applications over structured and unstructured data to help users find specific information. While it could potentially search across the grocery store's systems, it doesn't offer the broader capabilities of Google Agentspace to create customized AI assistants that can proactively provide insights and automate information retrieval from various systems.*
* *D is incorrect because Conversational Agents are primarily used for building customer-facing chatbots to automate interactions and answer customer inquiries. While valuable for customer service, they are not the most suitable solution for improving internal employee access to information across various internal systems, which is the core need in this scenario.*

Q4:

A growing retail company with fragmented phone, email, and basic website chat support needs a unified cloud solution. They require integrated communication channels, consistent customer experiences, and scalable support that ensures security and privacy. Which Google Cloud offering should they use?

1. Vertex AI Platform
2. Google Cloud Contact Center as a Service
3. Conversational AI
4. Vertex AI Search

**Correct answer**

Google Cloud Contact Center as a Service

**Feedback**

* *A is incorrect because Vertex AI Platform is Google Cloud's unified machine learning platform for building, deploying, and managing ML models. While it can be used to enhance customer experience through AI-powered features, it does not provide a complete contact center solution with integrated communication channels and agent management.*
* *B is correct because Google Cloud Contact Center as a Service (CCaaS) offers a complete cloud-based contact center solution. It integrates channels (phone, text, email, etc.), ensures consistent experiences (omnichannel support), and provides scalable and secure support. It manages the infrastructure, integrates with CRMs, and handles agent routing.*
* *C is incorrect because Conversational AI is a broader term referring to the technology used to build interactive systems like chatbots. While Google Cloud Contact Center as a Service leverages Conversational AI in its tools like Conversational Agents, option B does not represent a full contact center infrastructure offering the required integration and scalability.*
* *D is incorrect because Vertex AI Search is a Google Cloud service that allows developers to integrate advanced search capabilities into their applications and handle large volumes of multimodal data. While it can improve self-service and help customers find information, it does not provide the integrated communication channels, agent management, and comprehensive features required for a unified contact center solution.*

Q5:

What is reinforcement learning?

1. Learning from labeled data with correct output pairs.
2. Learning by identifying patterns in unlabeled data.
3. Learning through interaction and feedback.
4. Learning by training on vast data to generate new content.

**Correct answer**

Learning through interaction and feedback.

**Feedback**

* *A is incorrect because this definition describes supervised learning.*
* *B is incorrect because this definition describes unsupervised learning.*
* *C is correct because reinforcement learning is accurately defined as a process where an agent learns by interacting with an environment and receiving feedback in the form of rewards or penalties.*
* *D is incorrect because this describes the process to train generative AI models. This definition does not explicitly define reinforcement learning, but understanding its core mechanism of learning through interaction is a fundamental concept in machine learning.*

Q6:

A video game company created a virtual reality game with virtual characters that can interact with users in a more natural and intuitive way by using gestures and facial expressions to communicate. What type of agent is this?

1. Creative agent
2. Workflow agent
3. Virtual assistant agent
4. Conversational agent

**Correct answer**

Conversational agent

**Feedback**

* *A is incorrect because while creative agents can be used in games, the primary function described here aligns more with a conversational agent.*
* *B is incorrect because a workflow agent focuses on automating tasks, not natural interaction.*
* *C is incorrect because a virtual assistant typically provides support and information, not the interactive dialogue described.*
* *D is correct because a conversational agent is designed to understand and respond in a way that makes sense, aligning with the described interaction.*

Q7:

A software company has developers who need to write, review, debug, and generate code from natural language descriptions by using generative AI. What type of agent is this?

1. Data analysis agent
2. Workflow agent
3. Data agent
4. Code agent

**Correct answer**

Code agent

**Feedback**

* *A is incorrect because a data analysis agent supports data-related tasks and not specifically code tasks.*
* *B is incorrect because a workflow agent focuses on automating tasks, not the interactive code assistance described.*
* *C is incorrect because a data agent analyzes data, not code, to identify trends and insights.*
* *D is correct because a code agent can assist developers in writing, reviewing, and debugging code, and even generating code from natural language descriptions.*

Q8:

A research scientist wants to use Veo to visualize live, fluctuating data streams on a real-time dashboard. Why would Veo be a poor choice for this particular task?

1. Veo generates videos from static inputs like text or images and cannot process or dynamically visualize live data.
2. Veo may lack specific scientific visualization styles needed for accurate data representation.
3. Veo use for this scenario would require too many computational resources.
4. Veo is designed for short-form video, not continuous, long-duration live data displays.

**Correct answer**

Veo generates videos from static inputs like text or images and cannot process or dynamically visualize live data.

**Feedback**

* *A is correct because Veo generates videos from static inputs (text, images) and cannot process or dynamically visualize live data. The research scientist's task requires a system capable of real-time processing and visualization of live, fluctuating data streams, which is fundamentally different from Veo's design.*
* *B is incorrect because while specific scientific visualization styles are important, the primary reason Veo is unsuitable is its inability to handle live, fluctuating data streams. Its design for static inputs makes it incapable of real-time dynamic visualization, regardless of its graphical styles.*
* *C is incorrect because the provided sources do not contain information about Veo's computational resource requirements. The core issue is the functional mismatch between Veo's design and the task's need for dynamic data processing.*
* *D is incorrect because the sources do not specify limitations on video duration for Veo. Even if they did, the main problem remains Veo's fundamental inability to process and dynamically visualize live, fluctuating data in real-time, which is distinct from and more critical than potential output video length.*

Q9:

A company sells custom-designed phone cases on their website. How should Imagen be effectively used?

1. To generate realistic images of phone cases on devices from text descriptions of designs.
2. To analyze customer feedback to identify popular phone case design trends.
3. To predict demand for different phone case designs based on sales data.
4. To transcribe customer audio feedback on prototypes of phone case designs.

**Correct answer**

To generate realistic images of phone cases on devices from text descriptions of designs.

**Feedback**

* *A is correct because Imagen is trained to generate high-quality images from text descriptions. The company can use Imagen to create realistic visuals of their custom phone case designs by providing textual descriptions, which is ideal for product mockups on their website.*
* *B describes text analysis, a task better suited for language models like Gemini, not Imagen's image generation capabilities.*
* *C involves data analysis and prediction, which are typically handled by traditional machine learning models and analytical tools, not Imagen.*
* *D describes audio processing and transcription, a task for which speech-to-text models like Chirp would be appropriate, not Imagen.*

Q10:

A marketing team is brainstorming creative ideas for a new social media campaign. They want to quickly generate various taglines and initial post drafts to explore different angles and messaging options. They need a Google Cloud prebuilt generative AI tool without additional setup that allows for rapid content creation and experimentation. What should the team do?

1. Use NotebookLM to upload past successful campaigns and analyze their key elements.
2. Use Gemini for Google Workspace within Google Slides to prepare a presentation outlining their social media campaign strategy.
3. Use the Gemini app to create taglines and social media post drafts that align with their campaign goals and target audience.
4. Create a custom Gem in Gemini Advanced with specific brand guidelines and target audience profiles.

**Correct answer**

Use the Gemini app to create taglines and social media post drafts that align with their campaign goals and target audience.

**Feedback**

* *A is incorrect because NotebookLM is primarily for analyzing uploaded documents and extracting insights, not for rapid, open-ended creative content generation for social media.*
* *B is incorrect because while Gemini for Google Workspace can help refine and present content, it is not the primary tool for initial, rapid generation of multiple creative taglines and post drafts.*
* *C is correct because the Gemini app is designed for direct interaction and content generation through prompting. The marketing team can quickly input their campaign goals and target audience details and ask Gemini to generate multiple tagline options and initial post drafts for rapid brainstorming and exploration.*
* *D is incorrect because while creating a custom Gem can ensure brand consistency, it requires more setup and is less suited for the initial, exploratory phase of generating a wide range of creative ideas quickly. The Gemini app offers a more immediate solution for this purpose.*