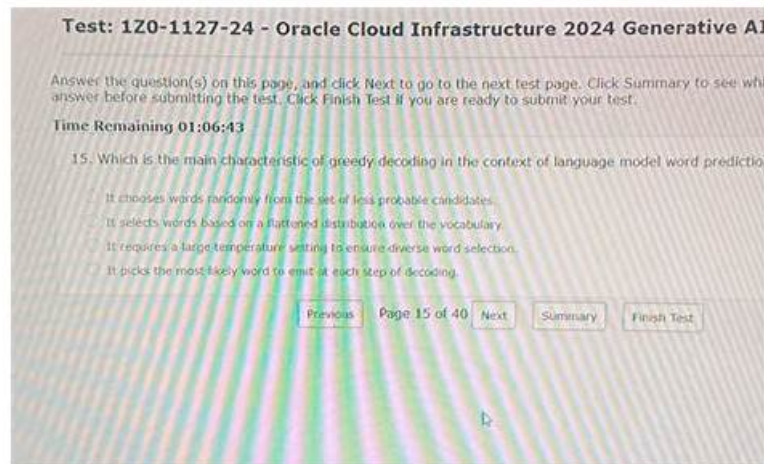


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The Oracle Cloud Infrastructure 2024 Generative AI Professional (1z0-1127-24) Desktop-based practice Exam is ideal for applicants who don't have access to the internet all the time. You can use this 1z0-1127-24 simulation software without an active internet connection. This 1z0-1127-24 software runs only on Windows computers. Both practice tests of Test4Cram i.e. web-based and desktop are customizable, mimic Oracle 1z0-1127-24 Real Exam scenarios, provide results instantly, and help to overcome mistakes.

Oracle 1z0-1127-24 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Fundamentals of Large Language Models (LLMs): For AI developers and Cloud Architects, this topic discusses LLM architectures and LLM fine-tuning. Additionally, it focuses on prompts for LLMs and fundamentals of code models.
Topic 2	<ul style="list-style-type: none">Building an LLM Application with OCI Generative AI Service: For AI Engineers, this section covers Retrieval Augmented Generation (RAG) concepts, vector database concepts, and semantic search concepts. It also focuses on deploying an LLM, tracing and evaluating an LLM, and building an LLM application with RAG and LangChain.

- Using OCI Generative AI Service: For AI Specialists, this section covers dedicated AI clusters for fine-tuning and inference. The topic also focuses on the fundamentals of OCI Generative AI service, foundational models for Generation, Summarization, and Embedding.

Oracle Cloud Infrastructure 2024 Generative AI Professional Sample Questions (Q32-Q37):

NEW QUESTION # 32

How does the temperature setting in a decoding algorithm influence the probability distribution over the vocabulary?

- A. Decreasing the temperature broadens the distribution, making less likely words more probable.
- **B. Increasing the temperature flattens the distribution, allowing for more varied word choices.**
- C. Increasing the temperature removes the impact of the most likely word.
- D. Temperature has no effect on probability distribution; it only changes the speed of decoding.

Answer: B

Explanation:

Temperature is a parameter in LLM decoding algorithms that controls randomness in text generation.

Effects of Temperature on Text Generation:

Higher Temperature (>1.0):

Flattens the probability distribution, making lower-probability words more likely.

Increases randomness, resulting in more creative and diverse outputs.

Lower Temperature (<1.0):

Sharpening effect, making high-probability words more dominant.

Produces more predictable and deterministic responses.

Why Other Options Are Incorrect:

(B) is incorrect because temperature does not remove the impact of likely words; it reduces or increases randomness.

(C) is incorrect because temperature affects probability, not speed.

(D) is incorrect because decreasing the temperature narrows the distribution, making text more deterministic.

□ Oracle Generative AI Reference:

Oracle AI models allow dynamic temperature control to balance coherence and creativity in text generation.

NEW QUESTION # 33

In the context of generating text with a Large Language Model (LLM), what does the process of greedy decoding entail?

- A. Selecting a random word from the entire vocabulary at each step
- B. Using a weighted random selection based on a modulated distribution
- **C. Choosing the word with the highest probability at each step of decoding**
- D. Picking a word based on its position in a sentence structure

Answer: C

Explanation:

Greedy Decoding is a simple and fast text generation strategy where the model always selects the word with the highest probability at each step.

How Greedy Decoding Works:

At each step of text generation, the model picks the most probable next word.

No consideration is given to long-term coherence or fluency.

This method can lead to repetitive and suboptimal outputs due to the lack of exploration.

Limitations of Greedy Decoding:

May miss optimal sentence structures because it only considers the next word, not the full sequence.

Less diversity in generated text, as it follows the highest-probability path rigidly.

Better alternatives exist: Beam Search, Top-k Sampling, and Temperature Scaling provide more refined results.

Why Other Options Are Incorrect:

(A) is incorrect because greedy decoding does not select random words.

(C) is incorrect because word choice is based on probability, not sentence structure.

(D) is incorrect because weighted random selection is used in sampling methods like Top-k or Top-p (nucleus sampling).

□ Oracle Generative AI Reference:

Oracle AI incorporates Greedy Decoding, Beam Search, and Stochastic Sampling in its text generation models to optimize for accuracy and diversity.

NEW QUESTION # 34

How does the architecture of dedicated AI clusters contribute to minimizing GPU memory overhead forT- Few fine-tuned model inference?

- A. By optimizing GPU memory utilization for each model's unique parameters
- B. By loading the entire model into GPU memory for efficient processing
- **C. By sharing base model weights across multiple fine-tuned models on the same group of GPUs**
- D. By allocating separate GPUs for each model instance

Answer: C

NEW QUESTION # 35

How does the architecture of dedicated AI clusters contribute to minimizing GPU memory overhead forT- Few fine-tuned model inference?

- A. By optimizing GPU memory utilization for each model's unique parameters
- B. By loading the entire model into GPU memory for efficient processing
- **C. By sharing base model weights across multiple fine-tuned models on the same group of GPUs**
- D. By allocating separate GPUs for each model instance

Answer: C

Explanation:

The architecture of dedicated AI clusters contributes to minimizing GPU memory overhead for fine-tuned model inference by sharing base model weights across multiple fine-tuned models on the same group of GPUs. This approach allows different fine-tuned models to leverage the shared base model weights, reducing the memory requirements and enabling efficient use of GPU resources. By not duplicating the base model weights for each fine-tuned model, the system can handle more models simultaneously with lower memory overhead.

Reference

Technical documentation on AI cluster architectures

Research articles on optimizing GPU memory utilization in model inference

NEW QUESTION # 36

What does a cosine distance of 0 indicate about the relationship between two embeddings?

- A. They are unrelated
- **B. They are similar in direction**
- C. They are completely dissimilar
- D. They have the same magnitude

Answer: B

NEW QUESTION # 37

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