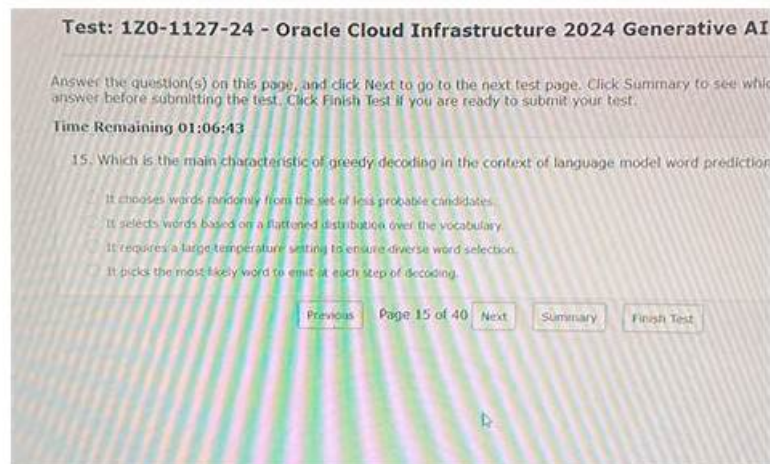


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Oracle Cloud Infrastructure 2024 Generative AI Professional Sample Questions (Q15-Q20):

NEW QUESTION # 15

What is the purpose of the "stop sequence" parameter in the OCI Generative AI Generation models?

- A. It determines the maximum number of tokens the model can generate per response.
- B. It controls the randomness of the model's output, affecting its creativity.
- C. It specifies a string that tells the model to stop generating more content
- D. It assigns a penalty to frequently occurring tokens to reduce repetitive text.

Answer: C

NEW QUESTION # 16

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

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

Answer: A

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 # 17

Which is a characteristic of T-Few fine-tuning for Large Language Models (LLMs)?

- A. It does not update any weights but restructures the model architecture.
- B. It updates all the weights of the model uniformly.
- **C. It selectively updates only a fraction of the model's weights.**
- D. It increases the training time as compared to Vanilla fine-tuning.

Answer: C

Explanation:

T-Few (Task-Specific Fine-tuning with Few-Shot Learning) is a fine-tuning approach designed to efficiently adapt Large Language Models (LLMs) to new tasks with minimal training data while using a small subset of model weights.

Characteristics of T-Few Fine-Tuning:

Selective Weight Updating: It does not update all model weights but focuses on a small fraction.

Few-Shot Learning Efficiency: Reduces the amount of labeled data required for fine-tuning.

Computational Cost Reduction: Requires significantly less compute than full model fine-tuning.

Better Transferability: Preserves the general knowledge of the base model while adapting to specific tasks.

Why Other Options Are Incorrect:

(B) is incorrect because T-Few updates weights rather than restructuring the model.

(C) is incorrect because not all weights are updated-only a small fraction.

(D) is incorrect because T-Few is optimized for efficiency and does not significantly increase training time.

□ Oracle Generative AI Reference:

Oracle AI supports efficient fine-tuning techniques like T-Few and LoRA (Low-Rank Adaptation) to enhance task-specific performance while reducing computational overhead.

NEW QUESTION # 18

How do Dot Product and Cosine Distance differ in their application to comparing text embeddings in natural language?

- A. Dot Product assesses the overall similarity in content, whereas Cosine Distance measures topical relevance.
- B. Dot Product is used for semantic analysis, whereas Cosine Distance is used for syntactic comparisons.
- C. Dot Product calculates the literal overlap of words, whereas Cosine Distance evaluates the stylistic similarity.
- **D. Dot Product measures the magnitude and direction vectors, whereas Cosine Distance focuses on the orientation regardless of magnitude.**

Answer: D

Explanation:

Dot Product and Cosine Distance are both metrics used to compare text embeddings, but they operate differently:

Dot Product: Measures the magnitude and direction of the vectors. It takes into account both the size (magnitude) and the angle (direction) between the vectors. This can result in higher similarity scores for longer vectors, even if they point in similar directions.

Cosine Distance: Focuses on the orientation of the vectors regardless of their magnitude. It measures the cosine of the angle between two vectors, which normalizes the vectors to unit length. This makes it a measure of the angle (or orientation) between the vectors, providing a similarity score that is independent of the vector lengths.

Reference

Research papers on text embedding comparison metrics

Technical documentation on vector similarity measures

NEW QUESTION # 19

What is the primary function of the "temperature" parameter in the OCI Generative AI Generation models?

- A. Specifies a string that tells the model to stop generating more content
- B. Assigns a penalty to tokens that have already appeared in the preceding text
- **C. Controls the randomness of the model's output, affecting its creativity**
- D. Determines the maximum number of tokens the model can generate per response

Answer: C

NEW QUESTION # 20

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