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Oracle 1z0-1127-24 Exam Syllabus Topics:

Topic	Details
Topic 1	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	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.
Topic 3	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.

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Oracle Cloud Infrastructure 2024 Generative AI Professional Sample Questions (Q41-Q46):

NEW QUESTION # 41

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

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

Answer: D

Explanation:

Cosine distance (or cosine similarity) is a metric used to measure the angular similarity between two vectors in high-dimensional space.

Cosine Distance Calculation:

Cosine similarity formula:


$$\text{cosine similarity} = \frac{A \cdot B}{\|A\| \|B\|}$$

The value ranges from -1 to 1:

1 → Vectors are identical.

0 → Vectors are orthogonal (unrelated).

-1 → Vectors are completely opposite.

Why a Cosine Distance of 0 Means Similar Direction:

A cosine similarity of 1 means vectors point in the same direction.

A cosine distance of 0 means maximum similarity (no angular difference).

Why Other Options Are Incorrect:

(A) is incorrect because a cosine distance of 0 implies similarity, not dissimilarity.

(B) is incorrect because unrelated vectors have a cosine similarity close to 0, not exactly 0.

(C) is incorrect because cosine similarity does not measure vector magnitude, only direction.

□ Oracle Generative AI Reference:

Oracle's vector search and embedding-based AI models rely on cosine similarity for semantic search, recommendation systems, and NLP tasks.

NEW QUESTION # 42

What does accuracy measure in the context of fine-tuning results for a generative model?

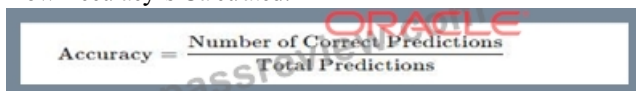
- A. The proportion of incorrect predictions made by the model during an evaluation
- B. The number of predictions a model makes, regardless of whether they are correct or incorrect
- C. The depth of the neural network layers used in the model
- D. How many predictions the model made correctly out of all the predictions in an evaluation

Answer: D

Explanation:

Accuracy in machine learning measures the proportion of correct predictions made by a model relative to the total predictions during an evaluation.

How Accuracy is Calculated:


$$\text{Accuracy} = \frac{\text{Number of Correct Predictions}}{\text{Total Predictions}}$$

A higher accuracy indicates better model performance.

Used primarily in classification tasks, but it can also assess LLM fine-tuning results.

Why Other Options Are Incorrect:

(A) is incorrect because the number of neural network layers does not define accuracy.

(B) is incorrect because accuracy considers correctness, not just total predictions.

(D) is incorrect because accuracy measures correct predictions, not just incorrect ones.

□ Oracle Generative AI Reference:

Oracle AI assesses model fine-tuning performance using accuracy, loss, and perplexity to improve LLM capabilities.

NEW QUESTION # 43

Which is a key characteristic of the annotation process used in T-Few fine-tuning?

- **A. T-Few fine-tuning uses annotated data to adjust a fraction of model weights.**
- B. T-Few fine-tuning requires manual annotation of input-output pairs.
- C. T-Few fine-tuning involves updating the weights of all layers in the model.
- D. T-Few fine-tuning relies on unsupervised learning techniques for annotation.

Answer: A

Explanation:

T-Few fine-tuning is a technique that uses annotated data to adjust only a fraction of the model's weights. This method aims to efficiently fine-tune the model with a limited amount of data and computational resources. By updating only a small subset of the parameters, T-Few fine-tuning can achieve significant performance improvements without the need for extensive training data or computational power.

Reference

Research papers on parameter-efficient fine-tuning techniques

Technical guides on T-Few fine-tuning methodology

NEW QUESTION # 44

What distinguishes the Cohere Embed v3 model from its predecessor in the OCI Generative AI service?

- A. Capacity to translate text in over 100 languages
- B. Emphasis on syntactic clustering of word embeddings
- C. Support for tokenizing longer sentences
- **D. Improved retrievals for Retrieval Augmented Generation (RAG) systems**

Answer: D

NEW QUESTION # 45

What does the RAG Sequence model do in the context of generating a response?

- A. It modifies the input query before retrieving relevant documents to ensure a diverse response.
- **B. For each input query, it retrieves a set of relevant documents and considers them together to generate a cohesive response.**
- C. It retrieves a single relevant document for the entire input query and generates a response based on that alone.
- D. It retrieves relevant documents only for the initial part of the query and ignores the rest.

Answer: B

Explanation:

RAG (Retrieval-Augmented Generation) Sequence models combine retrieval-based search with LLM-generated responses, ensuring factually grounded and contextually relevant outputs.

How the RAG Sequence Model Works:

Retrieves multiple documents for an input query.

Uses all retrieved documents collectively to generate a well-informed response.

Ensures the answer is contextually aware and factually accurate.

Why Other Options Are Incorrect:

(A) is incorrect because RAG does not ignore part of the query.

(B) is incorrect because it does not rely on a single document.

(C) is incorrect because RAG does not modify the input query but focuses on retrieval and generation.

□ Oracle Generative AI Reference:

Oracle AI implements RAG-based architectures to enhance LLM-generated responses by retrieving and grounding responses in factual data.

NEW QUESTION # 46

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