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Oracle 1z0-1127-24 Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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.
Topic 3	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.

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Oracle Cloud Infrastructure 2024 Generative AI Professional Sample Questions (Q42-Q47):

NEW QUESTION # 42

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

- A. They have the same magnitude
- B. They are completely dissimilar
- C. They are unrelated
- 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 # 43

Which is NOT a built-in memory type in LangChain?

- A. Conversation ImageMemory
- B. Conversation Summary Memory
- C. Conversation Buffer Memory
- D. Conversation Token Buffer Memory

Answer: A

Explanation:

In LangChain, "Conversation Image Memory" is not a built-in memory type. The built-in memory types in LangChain include:

Conversation Token Buffer Memory: This memory type stores a buffer of tokens from the conversation history.

Conversation Buffer Memory: This memory type retains a buffer of conversation history, typically in the form of text.

Conversation Summary Memory: This memory type summarizes the conversation history to keep track of key points and information.

These memory types help manage and utilize conversation history in various ways to enhance the performance of conversational models.

Reference

LangChain documentation on memory types

Technical guides on implementing memory in conversational AI systems

NEW QUESTION # 44

What is the primary purpose of LangSmith Tracing?

- A. To debug issues in language model outputs
- B. To generate test cases for language models
- C. To analyze the reasoning process of language
- D. To monitor the performance of language models

Answer: C

NEW QUESTION # 45

What does "Loss" measure in the evaluation of OCI Generative AI fine-tuned models?

The difference between the accuracy of the model at the beginning of training and the accuracy of the deployed model

- A. The difference between the accuracy of the model at the beginning of training and the accuracy of the deployed model
- B. The percentage of incorrect predictions made by the model compared with the total number of predictions in the evaluation
- C. The improvement in accuracy achieved by the model during training on the user-uploaded data set
- D. The level of incorrectness in the models predictions, with lower values indicating better performance

Answer: D

Explanation:

In the evaluation of OCI Generative AI fine-tuned models, "Loss" measures the level of incorrectness in the model's predictions. It quantifies how far the model's predictions are from the actual values. Lower loss values indicate better performance, as they reflect a smaller discrepancy between the predicted and true values. The goal during training is to minimize the loss, thereby improving the model's accuracy and reliability.

Reference

Articles on loss functions in machine learning

OCI Generative AI service documentation on model evaluation metrics

NEW QUESTION # 46

Why is normalization of vectors important before indexing in a hybrid search system?

- A. It standardizes vector lengths for meaningful comparison using metrics such as Cosine Similarity.
- B. It ensures that all vectors represent keywords only.
- C. It significantly reduces the size of the database.
- D. It converts all sparse vectors to dense vectors.

Answer: A

NEW QUESTION # 47

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