

1z0-1127-24 Exam Preparation: Oracle Cloud Infrastructure 2024 Generative AI Professional & 1z0-1127-24 Practice Labs



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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 (Q26-Q31):

NEW QUESTION # 26

An AI development company is working on an advanced AI assistant capable of handling queries in a seamless manner. Their goal is to create an assistant that can analyze images provided by users and generate descriptive text, as well as take text descriptions and produce accurate visual representations. Considering the capabilities, which type of model would the company likely focus on integrating into their AI assistant?

- A. A diffusion model that specializes in producing complex outputs.
- B. A Large Language Model based agent that focuses on generating textual responses
- C. A language model that operates on a token-by-token output basis
- D. A Retrieval Augmented Generation (RAG) model that uses text as input and output

Answer: A

Explanation:

An AI development company aiming to create an assistant capable of analyzing images and generating descriptive text, as well as converting text descriptions into accurate visual representations, would likely focus on integrating a diffusion model. Diffusion models are advanced generative models that specialize in producing complex outputs, including high-quality images from textual descriptions and vice versa.

Reference

Research papers on diffusion models and their applications

Technical documentation on generative models for image and text synthesis

NEW QUESTION # 27

Which Oracle Accelerated Data Science (ADS) class can be used to deploy a Large Language Model (LLM) application to OCI Data Science model deployment?

- A. Chain Deployment
- B. Text Leader
- C. GenerativeAI
- D. RetrievalQA

Answer: C

NEW QUESTION # 28

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

- A. They are completely dissimilar
- B. They are unrelated
- 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:



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 # 29

Given the following code:

Prompt Template

```
(input_variable["rhuman_input","city"], template-template)
```

Which statement is true about Prompt Template in relation to input_variables?

- A. PromptTemplate supports Any number of variable*, including the possibility of having none.
- B. PromptTemplate requires a minimum of two variables to function properly.
- C. PromptTemplate can support only a single variable M a time.
- D. PromptTemplate is unable to use any variables.

Answer: A

Explanation:

The PromptTemplate in relation to input_variables is designed to be flexible and can support any number of variables, including the possibility of having none. This means that users can define a template with multiple variables or none at all, depending on their specific needs. The PromptTemplate facilitates dynamic prompt creation by inserting variable values into predefined template slots.

Reference

LangChain documentation on PromptTemplate

Examples and tutorials on using PromptTemplate in generative AI applications

NEW QUESTION # 30

How does the architecture of dedicated AI clusters contribute to minimizing GPU memory overhead for T- 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.

NEW QUESTION # 31

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