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## Oracle 1z0-1127-24 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>

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## Oracle Cloud Infrastructure 2024 Generative AI Professional Sample Questions (Q62-Q67):

### NEW QUESTION # 62

Which component of Retrieval-Augmented Generation (RAG) evaluates and prioritizes the information retrieved by the retrieval system?

- A. Retriever
- B. Generator
- C. Encoder-decoder
- **D. Ranker**

**Answer: D**

Explanation:

In Retrieval-Augmented Generation (RAG), the component responsible for evaluating and prioritizing the information retrieved by the retrieval system is the Ranker. After the Retriever fetches relevant documents or passages, the Ranker assesses these retrieved items based on their relevance to the query. It then prioritizes them, typically scoring and ordering the documents so that the most pertinent information is considered first in the generation process. This ensures that the generated response is based on the most relevant and useful content available.

Reference

Research papers on RAG (Retrieval-Augmented Generation)

Technical documentation on the architecture of RAG models

### NEW QUESTION # 63

In LangChain, which retriever search type is used to balance between relevancy and diversity?

- A. similarity
- **B. mmr**
- C. top k
- D. similarity\_score\_threshold

**Answer: B**

Explanation:

In LangChain, the "mmr" (Maximal Marginal Relevance) search type is used to balance between relevancy and diversity when retrieving documents. This technique aims to select documents that are not only relevant to the query but also diverse from each other. This helps in avoiding redundancy and ensures that the retrieved set of documents covers a broader aspect of the topic. Maximal Marginal Relevance (MMR) works by iteratively selecting documents that have high relevance to the query but low similarity to the documents already selected. This ensures that each new document adds new information and perspectives, rather than repeating what is already included.

Reference

LangChain documentation on retrievers and search types

Research papers and articles on Maximal Marginal Relevance (MMR)

### NEW QUESTION # 64

Which statement best describes the role of encoder and decoder models in natural language processing?

- A. Encoder models and decoder models both convert sequence\* of words into vector representations without generating new text.
- B. Encoder models are used only for numerical calculations, whereas decoder models are used to interpret the calculated numerical values back into text.
- **C. Encoder models convert a sequence of words into a vector representation, and decoder models take this vector**

representation to sequence of words.

- D. Encoder models take a sequence of words and predict the next word in the sequence, whereas decoder models convert a sequence of words into a numerical representation.

**Answer: C**

Explanation:

In natural language processing (NLP), encoder and decoder models play distinct but complementary roles:

Encoder Models: These models convert a sequence of words into a vector representation. They capture the semantic meaning of the input text and encode it into a fixed-size vector.

Decoder Models: These models take the vector representation generated by the encoder and convert it back into a sequence of words. This process allows for generating new text based on the encoded information, such as in translation or text generation tasks.

Reference

Research articles on encoder-decoder architectures in NLP

Technical guides on the use of encoder and decoder models in machine translation and text generation

### NEW QUESTION # 65

Which statement best describes the role of encoder and decoder models in natural language processing?

- A. Encoder models and decoder models both convert sequence\* of words into vector representations without generating new text.
- B. Encoder models are used only for numerical calculations, whereas decoder models are used to interpret the calculated numerical values back into text.
- C. Encoder models convert a sequence of words into a vector representation, and decoder models take this vector representation to sequence of words.
- D. Encoder models take a sequence of words and predict the next word in the sequence, whereas decoder models convert a sequence of words into a numerical representation.

**Answer: C**

### NEW QUESTION # 66

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

- A. By loading the entire model into G PU memory for efficient processing
- B. By optimizing GPIJ memory utilization for each model's unique para
- C. By sharing base model weights across multiple fine-tuned model's 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 # 67

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