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Oracle 1z0-1127-24 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 (Q12-Q17):

NEW QUESTION # 12
How does the architecture of dedicated Al clusters contribute to minimizing GPU memory overhead forT- Few fine-tuned model inference?

- A. By allocating separate GPUS for each model instance
- B. By sharing base model weights across multiple fine-tuned model's on the same group of GPUs
- C. By loading the entire model into G PU memory for efficient processing
- D. By optimizing GPIJ memory utilization for each model's unique para

Answer: B

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 # 13
In LangChain, which retriever search type is used to balance between relevancy and diversity?

- A. similarity_score_threshold
- B. top k
- C. mmr
- D. similarity

Answer: C

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 # 14
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. Text Leader
- B. RetrievalQA
- C. Chain Deployment
- D. GenerativeAI

Answer: D

Explanation:
The Oracle Accelerated Data Science (ADS) class that can be used to deploy a Large Language Model (LLM) application to OCI Data Science model deployment is GenerativeAI. This class provides the necessary tools and functions to work with generative AI models, including deployment, fine-tuning, and inference capabilities. It integrates with OCI Data Science to streamline the process of deploying and managing LLM applications.
Reference
Oracle ADS documentation
Guides on deploying AI models using Oracle Data Science services

NEW QUESTION # 15
Given the following code: chain = prompt |11m

- A. LCEL is a programming language used to write documentation for LangChain.
- B. Which statement is true about LangChain Expression language (ICED?
- C. LCEL is a legacy method for creating chains in LangChain
- D. LCEL is a declarative and preferred way to compose chains together.

Answer: A

NEW QUESTION # 16
What distinguishes the Cohere Embed v3 model from its predecessor in the OCI Generative AI service?

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

Answer: C

Explanation:
The Cohere Embed v3 model distinguishes itself from its predecessor in the OCI Generative AI service primarily through improved retrievals for Retrieval Augmented Generation (RAG) systems. This enhancement means that the new version of the model is better at retrieving relevant documents or passages that can be used to augment the generation of responses. The improvements likely include better embedding quality, which allows the model to find more relevant and contextually appropriate information during the retrieval phase.
Reference
Cohere model documentation and release notes
Technical discussions on improvements in RAG systems

NEW QUESTION # 17
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