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

Topic	Details
Topic 1	<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>
Topic 2	<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 3	<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>
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## Oracle Cloud Infrastructure 2024 Generative AI Professional Sample Questions (Q20-Q25):

### NEW QUESTION # 20

How does the utilization of T-Few transformer layers contribute to the efficiency of the fine-tuning process?

- A. By restricting updates to only a specific group of transformer Layers
- B. By incorporating additional layers to the base model
- C. By excluding transformer layers from the fine-tuning process entirely
- D. By allowing updates across all layers of the model

**Answer: A**

Explanation:

The utilization of T-Few transformer layers contributes to the efficiency of the fine-tuning process by restricting updates to only a specific group of transformer layers. This selective updating approach allows the model to adapt to new data without the need to retrain all layers, thus saving computational resources and time. By focusing on the most relevant parts of the model, T-Few fine-tuning achieves efficient and effective performance improvements.

Reference

Research papers on T-Few fine-tuning techniques

Technical guides on optimizing transformer models

### NEW QUESTION # 21

What is the primary function of the "temperature" parameter in the OCI Generative AI Generation models?

- A. Specifies a string that tells the model to stop generating more content
- B. Assigns a penalty to tokens that have already appeared in the preceding text
- C. Determines the maximum number of tokens the model can generate per response
- D. Controls the randomness of the model's output, affecting its creativity

**Answer: D**

Explanation:

The "temperature" parameter in generative AI models controls the randomness of the model's output. It affects the creativity and diversity of the generated text:

Low temperature: Leads to more deterministic and focused outputs, where the model tends to choose the most probable tokens, resulting in less randomness and creativity.

High temperature: Increases randomness by making the probability distribution over the next tokens flatter. This allows for more diverse and creative outputs, as the model is more likely to choose less probable tokens.

Adjusting the temperature parameter enables fine-tuning the balance between creativity and coherence in the model's responses.

Reference

Research articles on the role of temperature in generative models

Technical guides for tuning generative AI models in OCI

### NEW QUESTION # 22

Which LangChain component is responsible for generating the linguistic output in a chatbot system?

- A. Document Loaders
- B. Vector Stores
- C. LangChain Application
- D. LLMs

**Answer: D**

Explanation:

LangChain is an open-source framework that helps integrate Large Language Models (LLMs) into applications. In a chatbot system, the LLM (Large Language Model) component is responsible for generating linguistic output, as it processes user inputs and generates human-like responses.

Key components of LangChain include:

Document Loaders - Responsible for extracting and processing external data sources before passing them to the LLM.

Vector Stores - Used for storing and retrieving vector embeddings of documents for semantic search and similarity retrieval.

LLMs (Large Language Models) - This is the core component responsible for understanding prompts and generating text-based outputs in a chatbot.

LangChain Applications - The overall framework that connects all components but does not directly generate text.

□ Oracle Generative AI Reference:

Oracle supports LLM-driven chatbots and enterprise AI solutions, utilizing frameworks like LangChain to enhance AI capabilities.

### NEW QUESTION # 23

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 # 24

What do prompt templates use for templating in language model applications?

- A. Python's lambda functions
- B. Python's list comprehension syntax
- C. Python's class and object structures
- **D. Python's str.format syntax**

**Answer: D**

Explanation:

Prompt templates are structured text-based input patterns that include placeholders for dynamic variable substitution. These templates help generate prompts for LLMs (Large Language Models) in a systematic and reusable way.

Prompt Template Example using str.format():

```
template = "What is the capital of {country}?"
```

```
formatted_prompt = template.format(country="France")
```

```
print(formatted_prompt) # Output: "What is the capital of France?"
```

Why str.format() is Used:

It allows dynamic insertion of variables.

It is flexible and widely supported in Python-based AI frameworks.

Used in LangChain, OpenAI API, and Oracle AI applications.

Why Other Options Are Incorrect:

(A) Lambda functions are used for anonymous function execution, not string templating.

(C) List comprehensions are used for iterating over lists, not text formatting.

(D) Class and object structures define OOP models, not LLM prompt templates.

□ Oracle Generative AI Reference:

Oracle AI frameworks use Python's str.format() and f-strings for LLM prompt engineering and AI-driven workflow automation.

## NEW QUESTION # 25

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