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Oracle 1z0-1127-24 Exam Syllabus Topics:

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

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Oracle Cloud Infrastructure 2024 Generative AI Professional Sample Questions (Q22-Q27):

NEW QUESTION # 22

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

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

Answer: B

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 # 23

Which is a key characteristic of the annotation process used in T-Few fine-tuning?

- A. T-Few fine-tuning requires manual annotation of input-output pairs.
- **B. T-Few fine-tuning uses annotated data to adjust a fraction of model weights.**
- C. T-Few fine-tuning relies on unsupervised learning techniques for annotation.
- D. T-Few fine-tuning involves updating the weights of all layers in the model.

Answer: B

Explanation:

T-Few fine-tuning is a technique that uses annotated data to adjust only a fraction of the model's weights. This method aims to efficiently fine-tune the model with a limited amount of data and computational resources. By updating only a small subset of the parameters, T-Few fine-tuning can achieve significant performance improvements without the need for extensive training data or computational power.

Reference

Research papers on parameter-efficient fine-tuning techniques

Technical guides on T-Few fine-tuning methodology

NEW QUESTION # 24

When should you use the T-Few fine-tuning method for training a model?

- A. For data sets with a few thousand samples or less
- B. For models that require their own hosting dedicated AI cluster
- C. For complicated semantical undemanding improvement
- D. For data sets with hundreds of thousands to millions of samples

Answer: A

Explanation:

The T-Few fine-tuning method is particularly suitable for data sets with a few thousand samples or less. This method is designed to be efficient and effective with limited data, making it ideal for scenarios where collecting large amounts of training data is impractical. T-Few fine-tuning allows for meaningful adjustments to the model even with smaller data sets, providing good performance improvements without requiring extensive data.

Reference

Articles on fine-tuning techniques for small data sets

Technical documentation on T-Few fine-tuning in machine learning models

NEW QUESTION # 25

Which is a characteristic of T-Few fine-tuning for Large Language Models (LLMs)?

- A. It does not update any weights but restructures the model architecture.
- B. It increases the training time as compared to Vanilla fine-tuning.
- C. It selectively updates only a fraction of the model's weights.
- D. It updates all the weights of the model uniformly.

Answer: C

Explanation:

T-Few (Task-Specific Fine-tuning with Few-Shot Learning) is a fine-tuning approach designed to efficiently adapt Large Language Models (LLMs) to new tasks with minimal training data while using a small subset of model weights.

Characteristics of T-Few Fine-Tuning:

Selective Weight Updating: It does not update all model weights but focuses on a small fraction.

Few-Shot Learning Efficiency: Reduces the amount of labeled data required for fine-tuning.

Computational Cost Reduction: Requires significantly less compute than full model fine-tuning.

Better Transferability: Preserves the general knowledge of the base model while adapting to specific tasks.

Why Other Options Are Incorrect:

(B) is incorrect because T-Few updates weights rather than restructuring the model.

(C) is incorrect because not all weights are updated-only a small fraction.

(D) is incorrect because T-Few is optimized for efficiency and does not significantly increase training time.

□ Oracle Generative AI Reference:

Oracle AI supports efficient fine-tuning techniques like T-Few and LoRA (Low-Rank Adaptation) to enhance task-specific performance while reducing computational overhead.

NEW QUESTION # 26

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

Answer: B

NEW QUESTION # 27

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