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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 (Q25-Q30):

NEW QUESTION # 25

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

Answer: A

Explanation:

In the evaluation of OCI Generative AI fine-tuned models, "Loss" measures the level of incorrectness in the model's predictions. It quantifies how far the model's predictions are from the actual values. Lower loss values indicate better performance, as they reflect a smaller discrepancy between the predicted and true values. The goal during training is to minimize the loss, thereby improving the model's accuracy and reliability.

Reference

Articles on loss functions in machine learning

OCI Generative AI service documentation on model evaluation metrics

NEW QUESTION # 26

Which is the main characteristic of greedy decoding in the context of language model word prediction?

- A. It chooses words randomly from the set of less probable candidates.
- B. It selects words based on a flattened distribution over the vocabulary.
- C. It requires a large temperature setting to ensure diverse word selection.
- D. It picks the most likely word at each step of decoding.**

Answer: D

NEW QUESTION # 27

What is LangChain?

- A. A Python library for building applications with Large Language Models**
- B. A Ruby library for text generation
- C. A JavaScript library for natural language processing
- D. A Java library for text summarization

Answer: A

Explanation:

LangChain is an open-source framework that helps developers integrate Large Language Models (LLMs) into applications. It simplifies working with AI by handling data retrieval, memory, agents, and pipelines.

Key Features of LangChain:

Works with multiple LLMs, including OpenAI, Hugging Face, and enterprise solutions.

Simplifies AI-powered applications, such as chatbots, document summarization, and RAG-based search.

Provides tools for vector storage, indexing, and retrieval.

Enhances AI workflows by combining LLMs with external data sources.

Why Other Options Are Incorrect:

(A) JavaScript library - LangChain is written in Python, not JavaScript.

(B) Ruby library - LangChain is not a Ruby framework.

(D) Java library - LangChain is not Java-based.

Oracle Generative AI Reference:

Oracle integrates LangChain for LLM-based applications in document search, AI chatbots, and workflow automation.

NEW QUESTION # 28

Which statement is NOT true about StreamlitChatMessageHistory?

- A. StreamlitChatMessageHistory will store messages in Streamlit session state at the specified key.
- B. StreamlitChatMessageHistory can be used in any type of LLM application.
- C. A given StreamlitChatMessageHistory will not be shared across user sessions.
- D. A given StreamlitChatMessageHistory will NOT be persisted.

Answer: B

Explanation:

StreamlitChatMessageHistory is a chat message storage tool in Streamlit, used to manage message history within LLM-powered applications.

Key Features of StreamlitChatMessageHistory:

Stores chat messages within Streamlit's session state.

Not persistent across sessions; resets when the session is closed.

Specific to Streamlit applications, not designed for all LLM applications.

Why Option (D) is Incorrect:

StreamlitChatMessageHistory is designed for Streamlit-based apps.

It is not suitable for all LLM applications, particularly those requiring persistent storage.

Why Other Options Are Correct:

(A) True: Each session has its own instance of StreamlitChatMessageHistory.

(B) True: It is not persisted across sessions.

(C) True: It stores messages in the Streamlit session state.

Oracle Generative AI Reference:

While Oracle AI supports various LLM applications, StreamlitChatMessageHistory is limited to Streamlit-based chat interfaces.

NEW QUESTION # 29

Which is NOT a typical use case for LangSmith Evaluators?

- A. Detecting bias or toxicity
- B. Evaluating factual accuracy of outputs
- C. Aliening code readability
- D. Measuring coherence of generated text

Answer: C

Explanation:

LangSmith Evaluators are not typically used for aligning code readability. Instead, they are used for tasks such as measuring the coherence of generated text, evaluating the factual accuracy of outputs, and detecting bias or toxicity. Evaluators help ensure the quality and reliability of the outputs generated by language models.

Reference

LangSmith documentation on evaluators

Research articles on evaluation metrics for language models

NEW QUESTION # 30

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