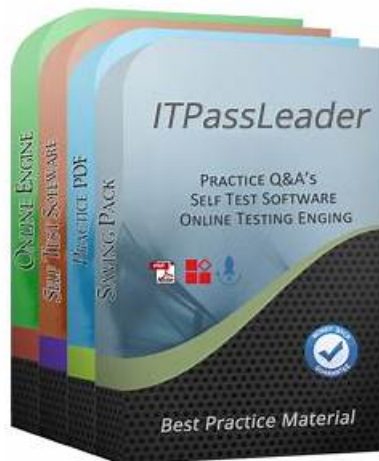


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Oracle 1z0-1127-24 Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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 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 (Q29-Q34):

NEW QUESTION # 29

Which is NOT a category of pertained foundational models available in the OCI Generative AI service?

- A. Summarization models
- B. Generation models
- C. Translation models
- D. Embedding models

Answer: C

Explanation:

In the OCI Generative AI service, the categories of pre-trained foundational models available include Summarization models, Generation models, and Embedding models. However, Translation models are not listed as a category of pre-trained foundational models available in OCI Generative AI service. The service focuses on providing models that support text generation, summarization, and embedding tasks.

Reference

OCI Generative AI service documentation

Listings and descriptions of pre-trained foundational models in OCI

NEW QUESTION # 30

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 # 31

In the simplified workflow for managing and querying vector data, what is the role of indexing?

- A. To compress vector data for minimized storage usage

- B. To convert vectors into a nonindexed format for easier retrieval
- C. To categorize vectors based on their originating data type (text, images, audio)
- **D. To map vectors to a data structure for faster searching, enabling efficient retrieval**

Answer: D

Explanation:

Vector indexing plays a crucial role in vector search and retrieval systems, particularly in AI-driven databases. The key functions of vector indexing include:

Efficient Search and Retrieval - Vector indexing structures (such as HNSW, FAISS, or Annoy) help organize vector embeddings to enable fast retrieval of similar vectors.

Mapping to Searchable Data Structures - The process involves creating indexes that efficiently store and map vectors, reducing computational overhead when searching for similar embeddings.

Handling High-Dimensional Data - Since vector embeddings (used in NLP, image recognition, etc.) are often high-dimensional, indexing helps compress and cluster similar vectors, improving retrieval speed.

Used in Vector Databases - Many AI applications, including Oracle's AI-driven database solutions, use indexing techniques for faster similarity searches.

□ Oracle Generative AI Reference:

Oracle integrates vector search within its AI and database services, allowing enterprises to efficiently manage and retrieve vectorized data.

NEW QUESTION # 32

What issue might arise from using small data sets with the Vanilla fine-tuning method in the OCI Generative AI service?

- A. Data Leakage
- B. Overfilling
- C. Model Drift
- **D. Underfitting**

Answer: D

Explanation:

Using small data sets with the Vanilla fine-tuning method in the OCI Generative AI service might result in underfitting. Underfitting occurs when a model is too simplistic to capture the underlying patterns in the data, leading to poor performance on both training and validation data. This is particularly problematic with small data sets because there may not be enough information for the model to learn the necessary patterns and relationships.

Reference

Articles on machine learning challenges with small data sets

Technical documentation on fine-tuning models in OCI

NEW QUESTION # 33

What is the purpose of Retrievers in LangChain?

- **A. To retrieve relevant information from knowledge bases**
- B. To break down complex tasks into smaller steps
- C. To train Large Language Models
- D. To combine multiple components into a single pipeline

Answer: A

Explanation:

Retrievers in LangChain serve the primary function of fetching relevant data from an external knowledge base or database to enhance the performance of Large Language Models (LLMs).

How Retrievers Work:

They retrieve documents, embeddings, or structured data that might be relevant to a given query.

Used in Retrieval-Augmented Generation (RAG) models to fetch real-time data.

Improves model responses by providing accurate and up-to-date knowledge.

Use Cases of Retrievers:

Chatbots: Enhancing responses with real-world or proprietary knowledge.

Question Answering Systems: Providing factual accuracy by referencing stored knowledge.

Enterprise AI Solutions: Connecting with databases, vector stores, and APIs to fetch data.

Why Other Options Are Incorrect:

(A) is incorrect because breaking tasks into smaller steps is handled by agents or chains.

(C) is incorrect because retrievers do not train LLMs; they enhance query responses.

(D) is incorrect because pipelines integrate components, whereas retrievers fetch external data.

❑ Oracle Generative AI Reference:

Oracle AI integrates retrieval mechanisms in enterprise AI solutions, improving data-driven AI responses.

NEW QUESTION # 34

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