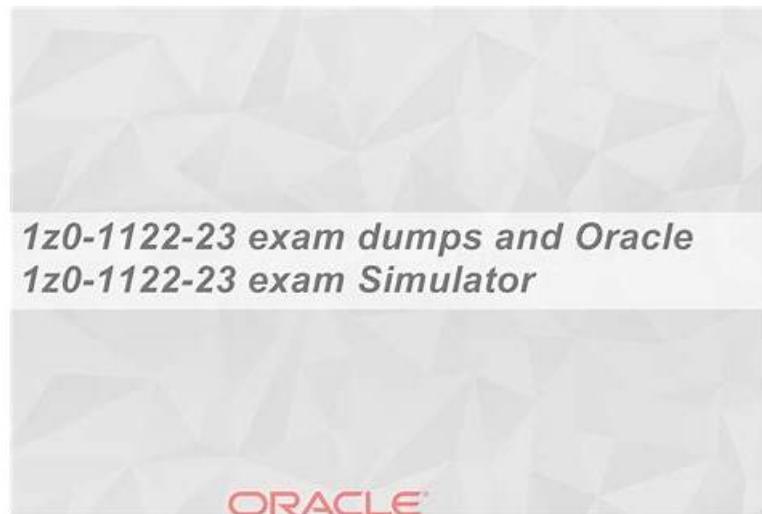


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Oracle 1Z0-1122-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Intro to AI Foundations: This section of the exam measures the skills of AI Practitioners and Data Analysts in understanding the fundamentals of artificial intelligence. It covers key concepts, AI applications across industries, and the types of data used in AI models. It also explains the differences between artificial intelligence, machine learning, and deep learning, providing clarity on how these technologies interact and complement each other.
Topic 2	<ul style="list-style-type: none">Intro to ML Foundations: This section evaluates the knowledge of Machine Learning Engineers in understanding machine learning principles and methodologies. It explores the basics of supervised learning, focusing on regression and classification techniques, along with unsupervised learning methods such as clustering and anomaly detection. It also introduces reinforcement learning fundamentals, helping professionals grasp the different approaches used to train AI models.
Topic 3	<ul style="list-style-type: none">Get started with OCI AI Portfolio: This section measures the proficiency of Cloud AI Specialists in exploring Oracle Cloud Infrastructure (OCI) AI services. It provides an overview of OCI AI and machine learning services, details AI infrastructure capabilities and explains responsible AI principles to ensure ethical and transparent AI development.
Topic 4	<ul style="list-style-type: none">Intro to OCI AI Services: This section tests the expertise of AI Solutions Engineers in working with OCI AI services and related APIs. It provides insights into key AI services such as language processing, computer vision, document understanding, and speech recognition, allowing professionals to leverage Oracle's AI ecosystem for building intelligent applications.

Topic 5	<ul style="list-style-type: none"> • Intro to Generative AI & LLMs: This section tests the abilities of AI Developers to understand generative AI and large language models. It introduces the principles of generative AI, explains the fundamentals of large language models (LLMs), and discusses the core workings of transformers, prompt engineering, instruction tuning, and LLM fine-tuning for optimizing AI-generated content.
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Oracle Cloud Infrastructure 2025 AI Foundations Associate Sample Questions (Q28-Q33):

NEW QUESTION # 28

What is the main function of the hidden layers in an Artificial Neural Network (ANN) when recognizing handwritten digits?

- A. Storing the input pixel values
- B. Providing labels for the output neurons
- C. Directly predicting the final output
- **D. Capturing the internal representation of the raw image data**

Answer: D

Explanation:

In an Artificial Neural Network (ANN) designed for recognizing handwritten digits, the hidden layers serve the crucial function of capturing the internal representation of the raw image data. These layers learn to extract and represent features such as edges, shapes, and textures from the input pixels, which are essential for distinguishing between different digits. By transforming the input data through multiple hidden layers, the network gradually abstracts the raw pixel data into higher-level representations, which are more informative and easier to classify into the correct digit categories.

NEW QUESTION # 29

Which capability is supported by the Oracle Cloud Infrastructure Vision service?

- A. Detecting and preventing fraud in financial transactions
- B. Analyzing historical data for unusual patterns
- **C. Detecting vehicle number plates to issue speed citations**
- D. Generating realistic images from text

Answer: C

Explanation:

The Oracle Cloud Infrastructure (OCI) Vision service is designed for image analysis tasks, which includes the capability to detect and recognize objects, such as vehicle number plates. This functionality is particularly useful for applications such as automated enforcement of traffic laws, where the system can identify vehicles exceeding speed limits and issue citations based on the detected number plates. This capability leverages advanced computer vision techniques to process and analyze visual data, making it suitable for applications in public safety, transportation, and law enforcement.

NEW QUESTION # 30

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

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

Answer: A

Explanation:

The OCI Generative AI service offers various categories of pretrained foundational models, including Embedding models, Chat models, and Generation models. These models are designed to perform a wide range of tasks, such as generating text, answering questions, and providing contextual embeddings. However, Translation models, which are typically used for converting text from one language to another, are not a category available in the OCI Generative AI service's current offerings. The focus of the OCI Generative AI service is more aligned with tasks related to text generation, chat interactions, and embedding generation rather than direct language translation.

NEW QUESTION # 31

How do Large Language Models (LLMs) handle the trade-off between model size, data quality, data size and performance?

- A. They focus on increasing the number of tokens while keeping the model size constant.
- B. They disregard model size and prioritize high-quality data only.
- C. They ensure that the model size, training time, and data size are balanced for optimal results.
- D. They prioritize larger model sizes to achieve better performance.

Answer: C

Explanation:

Large Language Models (LLMs) handle the trade-off between model size, data quality, data size, and performance by balancing these factors to achieve optimal results. Larger models typically provide better performance due to their increased capacity to learn from data; however, this comes with higher computational costs and longer training times. To manage this trade-off effectively, LLMs are designed to balance the size of the model with the quality and quantity of data used during training, and the amount of time dedicated to training. This balanced approach ensures that the models achieve high performance without unnecessary resource expenditure.

NEW QUESTION # 32

How is "Prompt Engineering" different from "Fine-tuning" in the context of Large Language Models (LLMs)?

- A. Both involve retraining the model, but Prompt Engineering does it more often.
- B. Prompt Engineering creates input prompts, while Fine-tuning retrains the model on specific data.
- C. Prompt Engineering modifies training data, while Fine-tuning alters the model's structure.
- D. Prompt Engineering adjusts the model's parameters, while Fine-tuning crafts input prompts.

Answer: B

Explanation:

In the context of Large Language Models (LLMs), Prompt Engineering and Fine-tuning are two distinct methods used to optimize the performance of AI models.

Prompt Engineering involves designing and structuring input prompts to guide the model in generating specific, relevant, and high-quality responses. This technique does not alter the model's internal parameters but instead leverages the existing capabilities of the model by crafting precise and effective prompts. The focus here is on optimizing how you ask the model to perform tasks, which can involve specifying the context, formatting the input, and iterating on the prompt to improve outputs.

Fine-tuning, on the other hand, refers to the process of retraining a pretrained model on a smaller, task-specific dataset. This adjustment allows the model to adapt its parameters to better suit the specific needs of the task at hand, effectively "specializing" the model for particular applications. Fine-tuning involves modifying the internal structure of the model to improve its accuracy and performance on the targeted tasks.

Thus, the key difference is that Prompt Engineering focuses on how to use the model effectively through input manipulation, while Fine-tuning involves altering the model itself to improve its performance on specialized tasks.

NEW QUESTION # 33

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