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Oracle 1Z0-1122-25 Exam Syllabus Topics:

Topic	Details
Topic 1	• Intro to DL Foundations: This section assesses the expertise of Deep Learning Engineers in understanding deep learning frameworks and architectures. It covers fundamental concepts of deep learning, introduces convolutional neural networks (CNN) for image processing, and explores sequence models like recurrent neural networks (RNN) and long short-term memory (LSTM) networks for handling sequential data.
Topic 2	• 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 3	• 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 4	• 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.

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Oracle Cloud Infrastructure 2025 AI Foundations Associate Sample Questions (Q21-Q26):

NEW QUESTION # 21
What does "fine-tuning" refer to in the context of OCI Generative AI service?

- A. Doubling the neural network layers
- B. Encrypting the data for security reasons
- C. Upgrading the hardware of the AI clusters
- D. Adjusting the model parameters to improve accuracy

Answer: D

Explanation:
Fine-tuning in the context of the OCI Generative AI service refers to the process of adjusting the parameters of a pretrained model to better fit a specific task or dataset. This process involves further training the model on a smaller, task-specific dataset, allowing the model to refine its understanding and improve its performance on that specific task. Fine-tuning is essential for customizing the general capabilities of a pretrained model to meet the particular needs of a given application, resulting in more accurate and relevant outputs. It is distinct from other processes like encrypting data, upgrading hardware, or simply increasing the complexity of the model architecture.

NEW QUESTION # 22
What role do Transformers perform in Large Language Models (LLMs)?

- A. Manually engineer features in the data before training the model
- B. Limit the ability of LLMs to handle large datasets by imposing strict memory constraints
- C. Image recognition tasks in LLMs
- D. Provide a mechanism to process sequential data in parallel and capture long-range dependencies

Answer: D

Explanation:
Transformers play a critical role in Large Language Models (LLMs), like GPT-4, by providing an efficient and effective mechanism to process sequential data in parallel while capturing long-range dependencies. This capability is essential for understanding and generating coherent and contextually appropriate text over extended sequences of input.

Sequential Data Processing in Parallel:

Traditional models, like Recurrent Neural Networks (RNNs), process sequences of data one step at a time, which can be slow and difficult to scale. In contrast, Transformers allow for the parallel processing of sequences, significantly speeding up the computation and making it feasible to train on large datasets.

This parallelism is achieved through the self-attention mechanism, which enables the model to consider all parts of the input data simultaneously, rather than sequentially. Each token (word, punctuation, etc.) in the sequence is compared with every other token, allowing the model to weigh the importance of each part of the input relative to every other part.

Capturing Long-Range Dependencies:

Transformers excel at capturing long-range dependencies within data, which is crucial for understanding context in natural language processing tasks. For example, in a long sentence or paragraph, the meaning of a word can depend on other words that are far apart in the sequence. The self-attention mechanism in Transformers allows the model to capture these dependencies effectively by focusing on relevant parts of the text regardless of their position in the sequence.

This ability to capture long-range dependencies enhances the model's understanding of context, leading to more coherent and accurate text generation.

Applications in LLMs:

In the context of GPT-4 and similar models, the Transformer architecture allows these models to generate text that is not only contextually appropriate but also maintains coherence across long passages, which is a significant improvement over earlier models. This is why the Transformer is the foundational architecture behind the success of GPT models.

Reference:

Transformers are a foundational architecture in LLMs, particularly because they enable parallel processing and capture long-range dependencies, which are essential for effective language understanding and generation.

NEW QUESTION # 23

What is the purpose of the model catalog in OCI Data Science?

- A. To provide a preinstalled open source library
- B. To deploy models as HTTP endpoints
- C. To store, track, share, and manage models
- D. To create and switch between different environments

Answer: C

Explanation:

The primary purpose of the model catalog in OCI Data Science is to store, track, share, and manage machine learning models. This functionality is essential for maintaining an organized repository where data scientists and developers can collaborate on models, monitor their performance, and manage their lifecycle. The model catalog also facilitates model versioning, ensuring that the most recent and effective models are available for deployment. This capability is crucial in a collaborative environment where multiple stakeholders need access to the latest model versions for testing, evaluation, and deployment.

NEW QUESTION # 24

What is a key advantage of using dedicated AI clusters in the OCI Generative AI service?

- A. They provide high performance compute resources for fine-tuning tasks.
- B. They are free of charge for all users.
- C. They allow access to unlimited database resources.
- D. They provide faster internet connection speeds.

Answer: A

Explanation:

The primary advantage of using dedicated AI clusters in the Oracle Cloud Infrastructure (OCI) Generative AI service is the provision of high-performance compute resources that are specifically optimized for fine-tuning tasks. Fine-tuning is a critical step in the process of adapting pre-trained models to specific tasks, and it requires significant computational power. Dedicated AI clusters in OCI are designed to deliver the necessary performance and scalability to handle the intense workloads associated with fine-tuning large language models (LLMs) and other AI models, ensuring faster processing and more efficient training.

NEW QUESTION # 25

What is "in-context learning" in the realm of Large Language Models (LLMs)?

- **A. Providing a few examples of a target task via the input prompt**
- B. Teaching a model through zero-shot learning
- C. Training a model on a diverse range of tasks
- D. Modifying the behavior of a pretrained LLM permanently

Answer: A

Explanation:
"In-context learning" in the realm of Large Language Models (LLMs) refers to the ability of these models to learn and adapt to a specific task by being provided with a few examples of that task within the input prompt. This approach allows the model to understand the desired pattern or structure from the given examples and apply it to generate the correct outputs for new, similar inputs. In-context learning is powerful because it does not require retraining the model; instead, it uses the examples provided within the context of the interaction to guide its behavior.

NEW QUESTION # 26

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