

## Oracle.1z0-1122-24.v2025-02-15.q14

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### NEW QUESTION: 1

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

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

**Answer: (SHOW ANSWER)**

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: 2

Which feature is NOT available as part of OCI Speech capabilities?

- A. Uses extensive data science experience to operate
- B. Provides timestamped, grammatically accurate transcriptions
- C. Transcribes audio and video files into text
- D. Supports multiple languages including English, Spanish, and Portuguese

**Answer: A (LEAVE A REPLY)**

OCI Speech capabilities are designed to be user-friendly and do not require extensive data science experience to operate. The service provides features such as transcribing audio and video files into text, offering grammatically accurate transcriptions, supporting multiple languages, and providing timestamped outputs. These capabilities are built to be

accessible to a broad range of users, making speech-to-text conversion seamless and straightforward without the need for deep technical expertise.

**NEW QUESTION: 3**

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

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

**Answer: B (LEAVE A REPLY)**

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: 4**

What is the primary benefit of using Oracle Cloud Infrastructure Supercluster for AI workloads?

- A. It delivers exceptional performance and scalability for complex AI tasks.
- B. It is ideal for tasks such as text-to-speech conversion.
- C. It offers seamless integration with social media platforms.
- D. It provides a cost-effective solution for simple AI tasks.

**Answer: A (LEAVE A REPLY)**

Oracle Cloud Infrastructure Supercluster is designed to deliver exceptional performance and scalability for complex AI tasks. The primary benefit of this infrastructure is its ability to handle demanding AI workloads, offering high-performance computing (HPC) capabilities that are crucial for training large-scale AI models and processing massive datasets. The architecture of the Supercluster ensures low-latency networking, efficient resource allocation, and high-throughput processing, making it ideal for AI tasks that require significant computational power, such as deep learning, data analytics, and large-scale simulations.

**NEW QUESTION: 5**

What would you use Oracle AI Vector Search for?

- A. Store business data in a cloud database.
- B. Manage database security protocols.

- C. Query data based on keywords.
- D. Query data based on semantics.

**Answer: D (LEAVE A REPLY)**

Oracle AI Vector Search is designed to query data based on semantics rather than just keywords. This allows for more nuanced and contextually relevant searches by understanding the meaning behind the words used in a query. Vector search represents data in a high-dimensional vector space, where semantically similar items are placed closer together. This capability makes it particularly powerful for applications such as recommendation systems, natural language processing, and information retrieval where the meaning and context of the data are crucial .

### **NEW QUESTION: 6**

What are Convolutional Neural Networks (CNNs) primarily used for?

- A. Image classification
- B. Text processing
- C. Image generation
- D. Time series prediction

**Answer: A (LEAVE A REPLY)**

Convolutional Neural Networks (CNNs) are primarily used for image classification and other tasks involving spatial data. CNNs are particularly effective at recognizing patterns in images due to their ability to detect features such as edges, textures, and shapes across multiple layers of convolutional filters. This makes them the model of choice for tasks such as object recognition, image segmentation, and facial recognition.

CNNs are also used in other domains like video analysis and medical image processing, but their primary application remains in image classification.

### **NEW QUESTION: 7**

What is the benefit of using embedding models in OCI Generative AI service?

- A. They optimize the use of computational resources.
- B. They simplify managing databases.
- C. They facilitate semantic searches.
- D. They enable creating detailed graphics.

**Answer: C (LEAVE A REPLY)**

Embedding models in the OCI Generative AI service are designed to represent text, phrases, or other data types in a dense vector space, where semantically similar items are located closer to each other. This representation enables more effective semantic searches, where the goal is to retrieve information based on the meaning and context of the query, rather than just exact keyword matches.

The benefit of using embedding models is that they allow for more nuanced and contextually relevant searches. For example, if a user searches for "financial reports," an embedding model can understand that "quarterly earnings" is semantically related, even if

the exact phrase does not appear in the document. This capability greatly enhances the accuracy and relevance of search results, making it a powerful tool for handling large and diverse datasets .

### **NEW QUESTION: 8**

What is the key feature of Recurrent Neural Networks (RNNs)?

- A.** They process data in parallel.
- B.** They are primarily used for image recognition tasks.
- C.** They have a feedback loop that allows information to persist across different time steps.
- D.** They do not have an internal state.

**Answer: C (LEAVE A REPLY)**

Recurrent Neural Networks (RNNs) are a class of neural networks where connections between nodes can form cycles. This cycle creates a feedback loop that allows the network to maintain an internal state or memory, which persists across different time steps. This is the key feature of RNNs that distinguishes them from other neural networks, such as feedforward neural networks that process inputs in one direction only and do not have internal states.

RNNs are particularly useful for tasks where context or sequential information is important, such as in language modeling, time-series prediction, and speech recognition. The ability to retain information from previous inputs enables RNNs to make more informed predictions based on the entire sequence of data, not just the current input.

In contrast:

Option A (They process data in parallel) is incorrect because RNNs typically process data sequentially, not in parallel.

Option B (They are primarily used for image recognition tasks) is incorrect because image recognition is more commonly associated with Convolutional Neural Networks (CNNs), not RNNs.

Option D (They do not have an internal state) is incorrect because having an internal state is a defining characteristic of RNNs.

This feedback loop is fundamental to the operation of RNNs and allows them to handle sequences of data effectively by "remembering" past inputs to influence future outputs.

This memory capability is what makes RNNs powerful for applications that involve sequential or time-dependent data.

### **NEW QUESTION: 9**

Which statement best describes the relationship between Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL)?

- A.** DL is a subset of AI, and ML is a subset of DL.
- B.** AI, ML, and DL are entirely separate fields with no overlap.
- C.** ML is a subset of AI, and DL is a subset of ML.
- D.** AI is a subset of DL, which is a subset of ML.

**Answer: (SHOW ANSWER)**

Artificial Intelligence (AI) is the broadest field encompassing all technologies that enable machines to perform tasks that typically require human intelligence. Within AI, Machine Learning (ML) is a subset focused on the development of algorithms that allow systems to learn from and make predictions or decisions based on data. Deep Learning (DL) is a further subset of ML, characterized by the use of artificial neural networks with many layers (hence "deep").

In this hierarchy:

AI includes all methods to make machines intelligent.

ML refers to the methods within AI that focus on learning from data.

DL is a specialized field within ML that deals with deep neural networks.

**NEW QUESTION: 10**

How does AI enhance human efforts?

- A. By increasing the physical strength of humans
- B. By deleting data humans need to handle
- C. By completely replacing human workers in all tasks
- D. By processing data at a speed and effectiveness far beyond human capability

**Answer: (SHOW ANSWER)**

AI enhances human efforts by processing large volumes of data quickly and accurately, performing complex computations that would be time-consuming or impossible for humans to handle manually. This allows humans to focus on more strategic, creative, and decision-making tasks, leveraging AI's ability to provide insights, automate repetitive processes, and support decision-making. AI does not physically enhance human capabilities, nor does it replace human workers in all tasks. Instead, it serves as an augmentation tool, amplifying human productivity and capabilities.

**NEW QUESTION: 11**

Which AI domain is associated with tasks such as identifying the sentiment of text and translating text between languages?

- A. Natural Language Processing
- B. Computer Vision
- C. Natural Language Processing
- D. Anomaly Detection

**Answer: A (LEAVE A REPLY)**

Natural Language Processing (NLP) is the AI domain associated with tasks such as identifying the sentiment of text and translating text between languages. NLP focuses on enabling machines to understand, interpret, and generate human language in a way that is both meaningful and useful. This domain covers a wide range of applications, including text classification, language translation, sentiment analysis, and more, all of which involve processing and analyzing natural language data.

**NEW QUESTION: 12**

Which is NOT a capability of OCI Vision's image analysis?

- A. Locating and extracting text in images
- B. Translating text in images to another language
- C. Assigning classification labels to images
- D. Object detection with bounding boxes

**Answer: B (LEAVE A REPLY)**

OCI Vision's image analysis capabilities include locating and extracting text from images, assigning classification labels to images, and detecting objects with bounding boxes. However, translating text in images to another language is not a capability of OCI Vision's image analysis. This functionality typically requires an additional layer of processing, such as integration with a language translation service, which is beyond the scope of OCI Vision's core image analysis features.

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**NEW QUESTION: 13**

Which feature is NOT supported as part of the OCI Language service's pretrained language processing capabilities?

- A. Text Classification
- B. Sentiment Analysis
- C. Language Detection
- D. Text Generation

**Answer: (SHOW ANSWER)**

The OCI Language service offers several pretrained language processing capabilities, including Text Classification, Sentiment Analysis, and Language Detection. However, it does not natively support Text Generation as a part of its core language processing capabilities. Text Generation typically involves creating new content based on input prompts, which is a feature more commonly associated with models specifically designed for natural language generation.

**NEW QUESTION: 14**

Which algorithm is primarily used for adjusting the weights of connections between neurons during the training of an Artificial Neural Network (ANN)?

- A. Gradient Descent
- B. Backpropagation
- C. Random Forest
- D. Support Vector Machine

**Answer: B (LEAVE A REPLY)**

Backpropagation is the algorithm primarily used for adjusting the weights of connections between neurons during the training of an Artificial Neural Network (ANN). It is a supervised learning algorithm that calculates the gradient of the loss function with respect to each weight by applying the chain rule, propagating the error backward from the output layer to the input layer. This process updates the weights to minimize the error, thus improving the model's accuracy over time.

Gradient Descent is closely related as it is the optimization algorithm used to adjust the weights based on the gradients computed by backpropagation, but backpropagation is the specific method used to calculate these gradients.

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