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NVIDIA Generative AI LLMs Sample Questions (Q47-Q52):

NEW QUESTION # 47

What is the Open Neural Network Exchange (ONNX) format used for?

- A. Compressing deep learning models
- B. Reducing training time of neural networks
- C. Representing deep learning models
- D. Sharing neural network literature

Answer: C

Explanation:

The Open Neural Network Exchange (ONNX) format is an open-standard representation for deep learning models, enabling interoperability across different frameworks, as highlighted in NVIDIA's Generative AI and LLMs course. ONNX allows models trained in frameworks like PyTorch or TensorFlow to be exported and used in other compatible tools for inference or further development, ensuring portability and flexibility.

Option B is incorrect, as ONNX is not designed to reduce training time but to standardize model representation. Option C is wrong, as model compression is handled by techniques like quantization, not ONNX. Option D is inaccurate, as ONNX is unrelated to sharing literature. The course states: "ONNX is an open format for representing deep learning models, enabling seamless model exchange and deployment across various frameworks and platforms." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 48

How can Retrieval Augmented Generation (RAG) help developers to build a trustworthy AI system?

- A. RAG can generate responses that cite reference material from an external knowledge base, ensuring transparency and verifiability.
- B. RAG can align AI models with one another, improving the accuracy of AI systems through cross-checking.
- C. RAG can improve the energy efficiency of AI systems, reducing their environmental impact and cooling requirements.
- D. RAG can enhance the security features of AI systems, ensuring confidential computing and encrypted traffic.

Answer: A

Explanation:

Retrieval-Augmented Generation (RAG) enhances trustworthy AI by generating responses that cite reference material from an external knowledge base, ensuring transparency and verifiability, as discussed in NVIDIA's Generative AI and LLMs course. RAG combines a retriever to fetch relevant documents with a generator to produce responses, allowing outputs to be grounded in verifiable sources, reducing hallucinations and improving trust. Option A is incorrect, as RAG does not focus on security features like confidential computing. Option B is wrong, as RAG is unrelated to energy efficiency. Option C is inaccurate, as RAG does not align models but integrates retrieved knowledge. The course notes: "RAG enhances trustworthy AI by generating responses with citations from external knowledge bases, improving transparency and verifiability of outputs." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 49

Which of the following best describes Word2vec?

- A. A deep learning algorithm used to generate word embeddings from text data.
- B. A programming language used to build artificial intelligence models.
- C. A statistical technique used to analyze word frequency in a text corpus.
- D. A database management system designed for storing and querying word data.

Answer: A

Explanation:

Word2Vec is a groundbreaking deep learning algorithm developed to create dense vector representations, or embeddings, of words based on their contextual usage in large text corpora. Unlike traditional methods like bag-of-words or TF-IDF, which rely on frequency counts and often result in sparse vectors, Word2Vec employs neural networks to learn continuous vector spaces where semantically similar words are positioned closer together. This enables machines to capture nuances such as synonyms, analogies, and relationships (e.

g., "king" - "man" + "woman" # "queen"). The algorithm operates through two primary architectures: Continuous Bag-of-Words (CBOW), which predicts a target word from its surrounding context, and Skip-Gram, which does the reverse by predicting context words from a target word. Skip-Gram is particularly effective for rare words and larger datasets, while CBOW is faster and better for frequent words. In the context of NVIDIA's Generative AI and LLMs course, Word2Vec is highlighted as a foundational step in the evolution of text embeddings in natural language processing (NLP) tasks, paving the way for more advanced models like RNN-based embeddings and Transformers. This is essential for understanding how LLMs build upon these embeddings for tasks such as semantic analysis and language generation. Exact extract from the course description: "Understand how text embeddings have rapidly evolved in NLP tasks such as Word2Vec, recurrent neural network (RNN)-based embeddings, and Transformers." This positions Word2Vec as a key deep learning technique for generating meaningful word vectors from text data, distinguishing it from mere statistical frequency analysis or unrelated tools like programming languages or databases

NEW QUESTION # 50

What is the purpose of the NVIDIA NeMo Toolkit?

- A. NeMo helps researchers to develop models that trade-off size with minimum loss impact.
- B. NeMo helps researchers develop state-of-the-art models for computer vision based on convolutions.
- C. NeMo focuses on the morphology of a language by studying its words, and how they are formed.
- **D. NeMo facilitates the creation of models for speech recognition and natural language understanding.**

Answer: D

Explanation:

The NVIDIA NeMo Toolkit is a scalable, open-source framework designed to facilitate the development of state-of-the-art conversational AI models, particularly for Automatic Speech Recognition (ASR), Natural Language Processing (NLP), and Text-to-Speech (TTS). As highlighted in NVIDIA's Generative AI and LLMs course, NeMo provides modular, pre-built components and pre-trained models that researchers and developers can customize and fine-tune for tasks like speech recognition and natural language understanding.

It supports multi-GPU and multi-node training, leveraging PyTorch for efficient model development. Option A is incorrect, as NeMo does not focus on language morphology but on building AI models. Option B is wrong, as NeMo's primary goal is not model size trade-offs but comprehensive conversational AI development. Option D is inaccurate, as NeMo primarily targets speech and language tasks, not computer vision. The course notes: "NVIDIA NeMo is a toolkit for building conversational AI models, including Automatic Speech Recognition (ASR), Natural Language Processing (NLP), and Text-to-Speech (TTS) models, enabling researchers to create and deploy advanced AI solutions." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 51

Why might stemming or lemmatizing text be considered a beneficial preprocessing step in the context of computing TF-IDF vectors for a corpus?

- A. It increases the complexity of the dataset by introducing more unique tokens, enhancing the distinctiveness of each document.
- **B. It reduces the number of unique tokens by collapsing variant forms of a word into their root form, potentially decreasing noise in the data.**
- C. It guarantees an increase in the accuracy of TF-IDF vectors by ensuring more precise word usage distinction.
- D. It enhances the aesthetic appeal of the text, making it easier for readers to understand the document's content.

Answer: B

Explanation:

Stemming and lemmatizing are preprocessing techniques in NLP that reduce words to their root or base form, as discussed in NVIDIA's Generative AI and LLMs course. In the context of computing TF-IDF (Term Frequency-Inverse Document Frequency) vectors, these techniques are beneficial because they collapse variant forms of a word (e.g., "running," "ran" to "run") into a single token, reducing the number of unique tokens in the corpus. This decreases noise and dimensionality, improving the efficiency and effectiveness of TF-IDF representations for tasks like document classification or clustering. Option B is incorrect, as stemming and lemmatizing are not about aesthetics but about data preprocessing. Option C is wrong, as these techniques reduce, not increase, the number of unique tokens. Option D is inaccurate, as they do not guarantee accuracy improvements but rather reduce noise. The course states: "Stemming and lemmatizing reduce the number of unique tokens in a corpus by normalizing word forms, improving the quality of TF-IDF vectors by minimizing noise and dimensionality." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 52

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