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NVIDIA Generative AI LLMs Sample Questions (Q60-Q65):

NEW QUESTION # 60

What is the purpose of the NVIDIA NGC catalog?

- A. To provide a marketplace for buying and selling software development tools and resources.
- **B. To provide a curated collection of GPU-optimized AI and data science software.**
- C. To provide a platform for testing and debugging software applications.
- D. To provide a platform for developers to collaborate and share software development projects.

Answer: B

Explanation:

The NVIDIA NGC catalog is a curated repository of GPU-optimized software for AI, machine learning, and data science, as highlighted in NVIDIA's Generative AI and LLMs course. It provides developers with pre-built containers, pre-trained models, and tools optimized for NVIDIA GPUs, enabling faster development and deployment of AI solutions, including LLMs. These resources

are designed to streamline workflows and ensure compatibility with NVIDIA hardware. Option A is incorrect, as NGC is not primarily for testing or debugging but for providing optimized software. Option B is wrong, as it is not a collaboration platform like GitHub. Option C is inaccurate, as NGC is not a marketplace for buying and selling but a free resource hub. The course notes: "The NVIDIA NGC catalog offers a curated collection of GPU-optimized AI and data science software, including containers and models, to accelerate development and deployment." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 61

What is the correct order of steps in an ML project?

- A. Data collection, Data preprocessing, Model training, Model evaluation
- B. Model evaluation, Data collection, Data preprocessing, Model training
- C. Data preprocessing, Data collection, Model training, Model evaluation
- D. Model evaluation, Data preprocessing, Model training, Data collection

Answer: A

Explanation:

The correct order of steps in a machine learning (ML) project, as outlined in NVIDIA's Generative AI and LLMs course, is: Data collection, Data preprocessing, Model training, and Model evaluation. Data collection involves gathering relevant data for the task. Data preprocessing prepares the data by cleaning, transforming, and formatting it (e.g., tokenization for NLP). Model training involves using the preprocessed data to optimize the model's parameters. Model evaluation assesses the trained model's performance using metrics like accuracy or F1-score. This sequence ensures a systematic approach to building effective ML models. Options A, B, and C are incorrect, as they disrupt this logical flow (e.g., evaluating before training or preprocessing before collecting data is not feasible). The course states: "An ML project follows a structured pipeline: data collection, data preprocessing, model training, and model evaluation, ensuring data is properly prepared and models are rigorously assessed." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 62

Which technique is designed to train a deep learning model by adjusting the weights of the neural network based on the error between the predicted and actual outputs?

- A. Backpropagation
- B. Gradient Boosting
- C. Principal Component Analysis
- D. K-means Clustering

Answer: A

Explanation:

Backpropagation is a fundamental technique in training deep learning models, as emphasized in NVIDIA's Generative AI and LLMs course. It is designed to adjust the weights of a neural network by propagating the error between the predicted and actual outputs backward through the network. This process calculates gradients of the loss function with respect to each weight using the chain rule, enabling iterative weight updates via gradient descent to minimize the error. Backpropagation is essential for optimizing neural networks, including those used in large language models (LLMs), by fine-tuning weights to improve predictions. Option A, Gradient Boosting, is incorrect as it is an ensemble method for decision trees, not neural networks. Option B, Principal Component Analysis, is a dimensionality reduction technique, not a training method. Option C, K-means Clustering, is an unsupervised clustering algorithm, unrelated to supervised weight adjustment. The course highlights: "Backpropagation is used to train neural networks by computing gradients of the loss function and updating weights to minimize prediction errors, a critical process in deep learning models like Transformers." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 63

What is Retrieval Augmented Generation (RAG)?

- A. RAG is a technique used to fine-tune pre-trained LLMs for improved performance.

- B. RAG is a method for manipulating and generating text-based data using Transformer-based LLMs.
- C. RAG is an architecture used to optimize the output of an LLM by retraining the model with domain- specific data.
- **D. RAG is a methodology that combines an information retrieval component with a response generator.**

Answer: D

Explanation:

Retrieval-Augmented Generation (RAG) is a methodology that enhances the performance of large language models (LLMs) by integrating an information retrieval component with a generative model. As described in the seminal paper by Lewis et al. (2020), RAG retrieves relevant documents from an external knowledge base (e.g., using dense vector representations) and uses them to inform the generative process, enabling more accurate and contextually relevant responses. NVIDIA's documentation on generative AI workflows, particularly in the context of NeMo and Triton Inference Server, highlights RAG as a technique to improve LLM outputs by grounding them in external data, especially for tasks requiring factual accuracy or domain- specific knowledge. Option A is incorrect because RAG does not involve retraining the model but rather augments it with retrieved data. Option C is too vague and does not capture the retrieval aspect, while Option D refers to fine-tuning, which is a separate process.

References:

Lewis, P., et al. (2020). "Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks." NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

NEW QUESTION # 64

Which aspect in the development of ethical AI systems ensures they align with societal values and norms?

- A. Developing AI systems with autonomy from human decision-making.
- B. Achieving the highest possible level of prediction accuracy in AI models.
- **C. Ensuring AI systems have explicable decision-making processes.**
- D. Implementing complex algorithms to enhance AI's problem-solving capabilities.

Answer: C

Explanation:

Ensuring explicable decision-making processes, often referred to as explainability or interpretability, is critical for aligning AI systems with societal values and norms. NVIDIA's Trustworthy AI framework emphasizes that explainable AI allows stakeholders to understand how decisions are made, fostering trust and ensuring compliance with ethical standards. This is particularly important for addressing biases and ensuring fairness. Option A (prediction accuracy) is important but does not guarantee ethical alignment. Option B (complex algorithms) may improve performance but not societal alignment. Option C (autonomy) can conflict with ethical oversight, making it less desirable.

References:

NVIDIA Trustworthy AI: <https://www.nvidia.com/en-us/ai-data-science/trustworthy-ai/>

NEW QUESTION # 65

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