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NVIDIA Generative AI LLMs Sample Questions (Q57-Q62):

NEW QUESTION # 57
Which principle of Trustworthy AI primarily concerns the ethical implications of AI's impact on society and includes considerations for both potential misuse and unintended consequences?

- A. Certification
- B. Accountability
- C. Data Privacy
- D. Legal Responsibility

Answer: B

Explanation:
Accountability is a core principle of Trustworthy AI that addresses the ethical implications of AI's societal impact, including potential misuse and unintended consequences. NVIDIA's guidelines on Trustworthy AI, as outlined in their AI ethics framework, emphasize accountability as ensuring that AI systems are transparent, responsible, and answerable for their outcomes. This includes mitigating

risks of bias, ensuring fairness, and addressing unintended societal impacts. Option A (Certification) refers to compliance processes, not ethical implications. Option B (Data Privacy) focuses on protecting user data, not broader societal impact. Option D (Legal Responsibility) is related but narrower, focusing on liability rather than ethical considerations.
References:
NVIDIA Trustworthy AI:https://www.nvidia.com/en-us/ai-data-science/trustworthy-ai/

NEW QUESTION # 58
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. Principal Component Analysis
- B. Gradient Boosting
- C. K-means Clustering
- D. Backpropagation

Answer: D

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 # 59
What is confidential computing?

- A. A process for designing and applying AI systems in a manner that is explainable, fair, and verifiable.
- B. A technique for aligning the output of the AI models with human beliefs.
- C. A technique for securing computer hardware and software from potential threats.
- D. A method for interpreting and integrating various forms of data in AI systems.

Answer: C

Explanation:
Confidential computing is a technique for securing computer hardware and software from potential threats by protecting data in use, as covered in NVIDIA's Generative AI and LLMs course. It ensures that sensitive data, such as model weights or user inputs, remains encrypted during processing, using technologies like secure enclaves or trusted execution environments (e.g., NVIDIA H100 GPUs with confidential computing capabilities). This enhances the security of AI systems. Option B is incorrect, as it describes Trustworthy AI principles, not confidential computing. Option C is wrong, as aligning outputs with human beliefs is unrelated to security. Option D is inaccurate, as data integration is not the focus of confidential computing. The course notes: "Confidential computing secures AI systems by protecting data in use, leveraging trusted execution environments to safeguard sensitive information during processing." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 60
Why is layer normalization important in transformer architectures?

- A. To compress the model size for efficient storage.
- B. To enhance the model's ability to generalize to new data.
- C. To encode positional information within the sequence.

- D. To stabilize the learning process by adjusting the inputs across the features.

Answer: D

Explanation:
Layer normalization is a critical technique in Transformer architectures, as highlighted in NVIDIA's Generative AI and LLMs course. It stabilizes the learning process by normalizing the inputs to each layer across the features, ensuring that the mean and variance of the activations remain consistent. This is achieved by computing the mean and standard deviation of the inputs to a layer and scaling them to a standard range, which helps mitigate issues like vanishing or exploding gradients during training. This stabilization improves training efficiency and model performance, particularly in deep networks like Transformers. Option A is incorrect, as layer normalization primarily aids training stability, not generalization to new data, which is influenced by other factors like regularization. Option B is wrong, as layer normalization does not compress model size but adjusts activations. Option D is inaccurate, as positional information is handled by positional encoding, not layer normalization. The course notes: "Layer normalization stabilizes the training of Transformer models by normalizing layer inputs, ensuring consistent activation distributions and improving convergence." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 61
In ML applications, which machine learning algorithm is commonly used for creating new data based on existing data?

- A. Decision tree
- B. Generative adversarial network
- C. K-means clustering
- D. Support vector machine

Answer: B

Explanation:
Generative Adversarial Networks (GANs) are a class of machine learning algorithms specifically designed for creating new data based on existing data, as highlighted in NVIDIA's Generative AI and LLMs course. GANs consist of two models-a generator that produces synthetic data and a discriminator that evaluates its authenticity-trained adversarially to generate realistic data, such as images, text, or audio, that resembles the training distribution. This makes GANs a cornerstone of generative AI applications. Option A, Decision tree, is incorrect, as it is primarily used for classification and regression tasks, not data generation. Option B, Support vector machine, is a discriminative model for classification, not generation. Option D, K-means clustering, is an unsupervised clustering algorithm and does not generate new data. The course emphasizes:
"Generative Adversarial Networks (GANs) are used to create new data by learning to mimic the distribution of the training dataset, enabling applications in generative AI." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 62
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In addition to his primary profession as a writer and freelance NCA-GENL nerd for hire, Michael is the creative lead at Stalefish Labs, an entertainment company he co-founded with his wife, Masheed.

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