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NVIDIA Generative AI LLMs Sample Questions (Q90-Q95):

NEW QUESTION # 90

Which of the following is a key characteristic of Rapid Application Development (RAD)?

- A. Linear progression through predefined project phases.

- B. Iterative prototyping with active user involvement.
- C. Minimal user feedback during the development process.
- D. Extensive upfront planning before any development.

Answer: B

Explanation:

Rapid Application Development (RAD) is a software development methodology that emphasizes iterative prototyping and active user involvement to accelerate development and ensure alignment with user needs.

NVIDIA's documentation on AI application development, particularly in the context of NGC (NVIDIA GPU Cloud) and software workflows, aligns with RAD principles for quickly building and iterating on AI-driven applications. RAD involves creating prototypes, gathering user feedback, and refining the application iteratively, unlike traditional waterfall models. Option B is incorrect, as RAD minimizes upfront planning in favor of flexibility. Option C describes a linear waterfall approach, not RAD. Option D is false, as RAD relies heavily on user feedback.

References:

NVIDIA NGC Documentation: <https://docs.nvidia.com/ngc/ngc-overview/index.html>

NEW QUESTION # 91

You are working with a data scientist on a project that involves analyzing and processing textual data to extract meaningful insights and patterns. There is not much time for experimentation and you need to choose a Python package for efficient text analysis and manipulation. Which Python package is best suited for the task?

- A. spaCy
- B. Pandas
- C. NumPy
- D. Matplotlib

Answer: A

Explanation:

For efficient text analysis and manipulation in NLP projects, spaCy is the most suitable Python package, as emphasized in NVIDIA's Generative AI and LLMs course. spaCy is a high-performance library designed specifically for NLP tasks, offering robust tools for tokenization, part-of-speech tagging, named entity recognition, dependency parsing, and word vector generation. Its efficiency and pre-trained models make it ideal for extracting meaningful insights from text under time constraints. Option A, NumPy, is incorrect, as it is designed for numerical computations, not text processing. Option C, Pandas, is useful for tabular data manipulation but lacks specialized NLP capabilities. Option D, Matplotlib, is for data visualization, not text analysis. The course highlights: "spaCy is a powerful Python library for efficient text analysis and manipulation, providing tools for tokenization, entity recognition, and other NLP tasks, making it ideal for processing textual data." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 92

In the context of developing an AI application using NVIDIA's NGC containers, how does the use of containerized environments enhance the reproducibility of LLM training and deployment workflows?

- A. Containers reduce the model's memory footprint by compressing the neural network.
- B. Containers automatically optimize the model's hyperparameters for better performance.
- C. Containers enable direct access to GPU hardware without driver installation.
- D. Containers encapsulate dependencies and configurations, ensuring consistent execution across systems.

Answer: D

Explanation:

NVIDIA's NGC (NVIDIA GPU Cloud) containers provide pre-configured environments for AI workloads, enhancing reproducibility by encapsulating dependencies, libraries, and configurations. According to NVIDIA's NGC documentation, containers ensure that LLM training and deployment workflows run consistently across different systems (e.g., local workstations, cloud, or clusters) by isolating the environment from host system variations. This is critical for maintaining consistent results in research and production.

Option A is incorrect, as containers do not optimize hyperparameters. Option C is false, as containers do not compress models. Option D is misleading, as GPU drivers are still required on the host system.

References:

NVIDIA NGC Documentation: <https://docs.nvidia.com/ngc/ngc-overview/index.html>

NEW QUESTION # 93

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

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

Answer: B

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 # 94

Which calculation is most commonly used to measure the semantic closeness of two text passages?

- A. Hamming distance
- **B. Cosine similarity**
- C. Euclidean distance
- D. Jaccard similarity

Answer: B

Explanation:

Cosine similarity is the most commonly used metric to measure the semantic closeness of two text passages in NLP. It calculates the cosine of the angle between two vectors (e.g., word embeddings or sentence embeddings) in a high-dimensional space, focusing on the direction rather than magnitude, which makes it robust for comparing semantic similarity. NVIDIA's documentation on NLP tasks, particularly in NeMo and embedding models, highlights cosine similarity as the standard metric for tasks like semantic search or text similarity, often using embeddings from models like BERT or Sentence-BERT. Option A (Hamming distance) is for binary data, not text embeddings. Option B (Jaccard similarity) is for set-based comparisons, not semantic content. Option D (Euclidean distance) is less common for text due to its sensitivity to vector magnitude.

References:

NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

NEW QUESTION # 95

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