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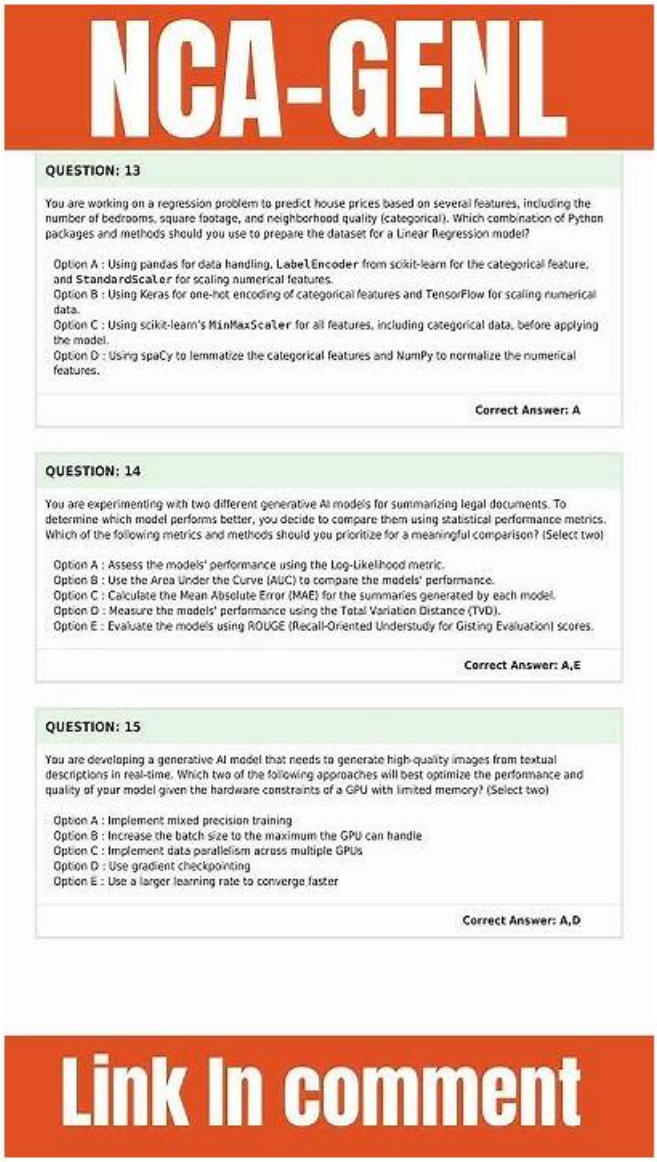

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NCA-GENL Answers Real Questions & Simulation NCA-GENL Questions

Don't waste your time with unhelpful study methods. There are plenty of options available, but not all of them are suitable to help you pass the NVIDIA Generative AI LLMs (NCA-GENL) exam. Some resources out there may even do more harm than good by leading you astray. Our NCA-GENL Exam Dumps are available with a free demo and up to 1 year of free updates.

NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• Data preprocessing and feature engineering: Covers preparing raw data through cleaning, transformation, and feature selection to make it suitable for model training.
Topic 2	• LLM integration and deployment: Addresses connecting LLMs into real-world applications and deploying them reliably across production environments.
Topic 3	• Prompt engineering: Focuses on techniques for designing and refining input prompts to effectively guide LLM outputs toward desired results.
Topic 4	• Python libraries for LLMs: Covers key Python frameworks and tools — such as LangChain, Hugging Face, and similar libraries — used to build and interact with LLMs.
Topic 5	• Fundamentals of machine learning and neural networks: Covers the core concepts of how machine learning models learn from data, including the structure and function of neural networks that underpin large language models.
Topic 6	• Experiment design: Focuses on structuring controlled tests and workflows to systematically evaluate LLM performance and outcomes.
Topic 7	• Alignment: Addresses methods for ensuring LLM behavior is safe, accurate, and consistent with human intentions and values.
Topic 8	• Software development: Covers the programming practices and coding skills required to build, maintain, and deploy generative AI applications.
Topic 9	• Experimentation: Explores running and evaluating trials to test model behavior, compare approaches, and validate generative AI solutions.

NVIDIA Generative AI LLMs Sample Questions (Q15-Q20):

NEW QUESTION # 15
What is Retrieval Augmented Generation (RAG)?

- A. RAG is a methodology that combines an information retrieval component with a response generator.
- 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 technique used to fine-tune pre-trained LLMs for improved performance.

Answer: A

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 # 16
In the context of a natural language processing (NLP) application, which approach is most effectivefor implementing zero-shot learning to classify text data into categories that were not seen during training?

- A. Use a large, labeled dataset for each possible category.
- B. Use a pre-trained language model with semantic embeddings.
- C. Train the new model from scratch for each new category encountered.
- D. Use rule-based systems to manually define the characteristics of each category.

Answer: B

Explanation:
Zero-shot learning allows models to perform tasks or classify data into categories without prior training on those specific categories. In NLP, pre-trained language models (e.g., BERT, GPT) with semantic embeddings are highly effective for zero-shot learning because they encode general linguistic knowledge and can generalize to new tasks by leveraging semantic similarity. NVIDIA's NeMo documentation on NLP tasks explains that pre-trained LLMs can perform zero-shot classification by using prompts or embeddings to map input text to unseen categories, often via techniques like natural language inference or cosine similarity in embedding space. Option A (rule-based systems) lacks scalability and flexibility. Option B contradicts zero- shot learning, as it requires labeled data. Option C (training from scratch) is impractical and defeats the purpose of zero-shot learning.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html Brown, T., et al. (2020). "Language Models are Few-Shot Learners."

NEW QUESTION # 17
Transformers are useful for language modeling because their architecture is uniquely suited for handling which of the following?

- A. Translations
- B. Class tokens
- C. Embeddings
- D. Long sequences

Answer: D

Explanation:
The transformer architecture, introduced in "Attention is All You Need" (Vaswani et al., 2017), is particularly effective for language modeling due to its ability to handle long sequences. Unlike RNNs, which struggle with long-term dependencies due to sequential processing, transformers use self-attention mechanisms to process all tokens in a sequence simultaneously, capturing relationships across long distances. NVIDIA's NeMo documentation emphasizes that transformers excel in tasks like language modeling because their attention mechanisms scale well with sequence length, especially with optimizations like sparse attention or efficient attention variants. Option B (embeddings) is a component, not a unique strength. Option C (class tokens) is specific to certain models like BERT, not a general transformer feature. Option D (translations) is an application, not a structural advantage.
References:
Vaswani, A., et al. (2017). "Attention is All You Need."
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html

NEW QUESTION # 18
Which technique is used in prompt engineering to guide LLMs in generating more accurate and contextually appropriate responses?

- A. Leveraging the system message.
- B. Increasing the model's parameter count.
- C. Training the model with additional data.
- D. Choosing another model architecture.

Answer: A

Explanation:
Prompt engineering involves designing inputs to guide large language models (LLMs) to produce desired outputs without modifying the model itself. Leveraging the system message is a key technique, where a predefined instruction or context is provided to the LLM to set the tone, role, or constraints for its responses.
NVIDIA's NeMo framework documentation on conversational AI highlights the use of system messages to improve the contextual accuracy of LLMs, especially in dialogue systems or task-specific applications. For instance, a system message like "You are a helpful technical assistant" ensures responses align with the intended role. Options A, B, and C involve model training or architectural changes, which are not part of prompt engineering.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html

NEW QUESTION # 19
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. K-means Clustering
- B. Backpropagation
- C. Principal Component Analysis
- D. Gradient Boosting

Answer: B

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 # 20
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