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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• Alignment: Addresses methods for ensuring LLM behavior is safe, accurate, and consistent with human intentions and values.
Topic 2	• Data preprocessing and feature engineering: Covers preparing raw data through cleaning, transformation, and feature selection to make it suitable for model training.

Topic 3	• Software development: Covers the programming practices and coding skills required to build, maintain, and deploy generative AI applications.
Topic 4	• Data analysis and visualization: Covers interpreting datasets and presenting insights through visual tools to support informed model development decisions.
Topic 5	• 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 6	• LLM integration and deployment: Addresses connecting LLMs into real-world applications and deploying them reliably across production environments.
Topic 7	• 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 8	• Prompt engineering: Focuses on techniques for designing and refining input prompts to effectively guide LLM outputs toward desired results.
Topic 9	• Experiment design: Focuses on structuring controlled tests and workflows to systematically evaluate LLM performance and outcomes.

Topic: Real NVIDIA NCA-GENL Exam Practice Questions

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NVIDIA Generative AI LLMs Sample Questions (Q61-Q66):

NEW QUESTION # 61
Which technique is used in prompt engineering to guide LLMs in generating more accurate and contextually appropriate responses?

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

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 # 62
In Exploratory Data Analysis (EDA) for Natural Language Understanding (NLU), which method is essential for understanding the contextual relationship between words in textual data?

- A. Applying sentiment analysis to gauge the overall sentiment expressed in a text.
- B. Creating n-gram models to analyze patterns of word sequences like bigrams and trigrams.
- C. Computing the frequency of individual words to identify the most common terms in a text.
- D. Generating word clouds to visually represent word frequency and highlight key terms.

Answer: B

Explanation:
In Exploratory Data Analysis (EDA) for Natural Language Understanding (NLU), creating n-gram models is essential for understanding the contextual relationships between words, as highlighted in NVIDIA's Generative AI and LLMs course. N-grams (e.g., bigrams, trigrams) capture sequences of words, revealing patterns and dependencies in text, such as common phrases or syntactic structures, which are critical for NLU tasks like text generation or classification. Unlike single-word frequency analysis, n-grams provide insight into how words relate to each other in context. Option A is incorrect, as computing word frequencies focuses on individual terms, missing contextual relationships. Option B is wrong, as sentiment analysis targets overall text sentiment, not word relationships. Option C is inaccurate, as word clouds visualize frequency, not contextual patterns. The course notes: "N-gram models are used in EDA for NLU to analyze word sequence patterns, such as bigrams and trigrams, to understand contextual relationships in textual data." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 63
In evaluating the transformer model for translation tasks, what is a common approach to assess its performance?

- A. Comparing the model's output with human-generated translations on a standard dataset.
- B. Evaluating the consistency of translation tone and style across different genres of text.
- C. Analyzing the lexical diversity of the model's translations compared to source texts.
- D. Measuring the syntactic complexity of the model's translations against a corpus of professional translations.

Answer: A

Explanation:
A common approach to evaluate Transformer models for translation tasks, as highlighted in NVIDIA's Generative AI and LLMs course, is to compare the model's output with human-generated translations on a standard dataset, such as WMT (Workshop on Machine Translation) or BLEU-evaluated corpora. Metrics like BLEU (Bilingual Evaluation Understudy) score are used to quantify the similarity between machine and human translations, assessing accuracy and fluency. This method ensures objective, standardized evaluation.
Option A is incorrect, as lexical diversity is not a primary evaluation metric for translation quality. Option C is wrong, as tone and style consistency are secondary to accuracy and fluency. Option D is inaccurate, as syntactic complexity is not a standard evaluation criterion compared to direct human translation benchmarks.
The course states: "Evaluating Transformer models for translation involves comparing their outputs to human- generated translations on standard datasets, using metrics like BLEU to measure performance." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 64
How can Retrieval Augmented Generation (RAG) help developers to build a trustworthy AI system?

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

Answer: D

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 # 65
Which of the following options describes best the NeMo Guardrails platform?

- A. Ensuring the ethical use of artificial intelligence systems by monitoring and enforcing compliance with predefined rules and regulations.
- B. Building advanced data factories for generative AI services in the context of language models.
- C. Developing and designing advanced machine learning models capable of interpreting and integrating various forms of data.
- D. Ensuring scalability and performance of large language models in pre-training and inference.

Answer: A

Explanation:
The NVIDIA NeMo Guardrails platform is designed to ensure the ethical and safe use of AI systems, particularly LLMs, by enforcing predefined rules and regulations, as highlighted in NVIDIA's Generative AI and LLMs course. It provides a framework to monitor and control LLM outputs, preventing harmful or inappropriate responses and ensuring compliance with ethical guidelines. Option A is incorrect, as NeMo Guardrails focuses on safety, not scalability or performance. Option B is wrong, as it describes model development, not guardrails. Option D is inaccurate, as it does not pertain to data factories but to ethical AI enforcement. The course notes: "NeMo Guardrails ensures the ethical use of AI by monitoring and enforcing compliance with predefined rules, enhancing the safety and trustworthiness of LLM outputs." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 66
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