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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Fundamentals of Machine Learning and Neural Networks: This section of the exam measures the skills of AI Researchers and covers the foundational principles behind machine learning and neural networks, focusing on how these concepts underpin the development of large language models (LLMs). It ensures the learner understands the basic structure and learning mechanisms involved in training generative AI systems.
Topic 2	<ul style="list-style-type: none">• Alignment: This section of the exam measures the skills of AI Policy Engineers and covers techniques to align LLM outputs with human intentions and values. It includes safety mechanisms, ethical safeguards, and tuning strategies to reduce harmful, biased, or inaccurate results from models.
Topic 3	<ul style="list-style-type: none">• Experiment Design

Topic 4	<ul style="list-style-type: none"> This section of the exam measures skills of AI Product Developers and covers how to strategically plan experiments that validate hypotheses, compare model variations, or test model responses. It focuses on structure, controls, and variables in experimentation.
Topic 5	<ul style="list-style-type: none"> Data Preprocessing and Feature Engineering: This section of the exam measures the skills of Data Engineers and covers preparing raw data into usable formats for model training or fine-tuning. It includes cleaning, normalizing, tokenizing, and feature extraction methods essential to building robust LLM pipelines.
Topic 6	<ul style="list-style-type: none"> Prompt Engineering: This section of the exam measures the skills of Prompt Designers and covers how to craft effective prompts that guide LLMs to produce desired outputs. It focuses on prompt strategies, formatting, and iterative refinement techniques used in both development and real-world applications of LLMs.
Topic 7	<ul style="list-style-type: none"> Data Analysis and Visualization: This section of the exam measures the skills of Data Scientists and covers interpreting, cleaning, and presenting data through visual storytelling. It emphasizes how to use visualization to extract insights and evaluate model behavior, performance, or training data patterns.

NVIDIA Generative AI LLMs Sample Questions (Q26-Q31):

NEW QUESTION # 26

Which of the following principles are widely recognized for building trustworthy AI? (Choose two.)

- A. Scalability
- B. Low latency
- C. Privacy
- D. Nondiscrimination
- E. Conversational

Answer: C,D

Explanation:

In building Trustworthy AI, privacy and nondiscrimination are widely recognized principles, as emphasized in NVIDIA's Generative AI and LLMs course. Privacy ensures that AI systems protect user data and maintain confidentiality, often through techniques like confidential computing or data anonymization.

Nondiscrimination ensures that AI models avoid biases and treat all groups fairly, mitigating issues like discriminatory outputs. Option A, conversational, is incorrect, as it is a feature of some AI systems, not a Trustworthy AI principle. Option B, low latency, is a performance goal, not a trust principle. Option D, scalability, is a technical consideration, not directly related to trustworthiness. The course states: "Trustworthy AI principles include privacy, ensuring data protection, and nondiscrimination, ensuring fair and unbiased model behavior, critical for ethical AI development." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 27

Which of the following best describes Word2vec?

- A. A statistical technique used to analyze word frequency in a text corpus.
- B. A deep learning algorithm used to generate word embeddings from text data.
- C. A database management system designed for storing and querying word data.
- D. A programming language used to build artificial intelligence models.

Answer: B

Explanation:

Word2Vec is a groundbreaking deep learning algorithm developed to create dense vector representations, or embeddings, of words based on their contextual usage in large text corpora. Unlike traditional methods like bag-of-words or TF-IDF, which rely on frequency counts and often result in sparse vectors, Word2Vec employs neural networks to learn continuous vector spaces where semantically similar words are positioned closer together. This enables machines to capture nuances such as synonyms, analogies, and relationships (e.g., "king" - "man" + "woman" = "queen"). The algorithm operates through two primary architectures:

Continuous Bag-of-Words (CBOW), which predicts a target word from its surrounding context, and Skip-Gram, which does the reverse by predicting context words from a target word. Skip-Gram is particularly effective for rare words and larger datasets, while CBOW is faster and better for frequent words. In the context of NVIDIA's Generative AI and LLMs course, Word2Vec is highlighted as a foundational step in the evolution of text embeddings in natural language processing (NLP) tasks, paving the way for more advanced models like RNN-based embeddings and Transformers. This is essential for understanding how LLMs build upon these embeddings for tasks such as semantic analysis and language generation. Exact extract from the course description: "Understand how text embeddings have rapidly evolved in NLP tasks such as Word2Vec, recurrent neural network (RNN)-based embeddings, and Transformers." This positions Word2Vec as a key deep learning technique for generating meaningful word vectors from text data, distinguishing it from mere statistical frequency analysis or unrelated tools like programming languages or databases

NEW QUESTION # 28

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

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

Answer: C

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 # 29

Which of the following is a parameter-efficient fine-tuning approach that one can use to fine-tune LLMs in a memory-efficient fashion?

- A. NeMo
- B. TensorRT
- C. Chinchilla
- D. LoRA

Answer: D

Explanation:

LoRA (Low-Rank Adaptation) is a parameter-efficient fine-tuning approach specifically designed for large language models (LLMs), as covered in NVIDIA's Generative AI and LLMs course. It fine-tunes LLMs by updating a small subset of parameters through low-rank matrix factorization, significantly reducing memory and computational requirements compared to full fine-tuning. This makes LoRA ideal for adapting large models to specific tasks while maintaining efficiency. Option A, TensorRT, is incorrect, as it is an inference optimization library, not a fine-tuning method. Option B, NeMo, is a framework for building AI models, not a specific fine-tuning technique. Option C, Chinchilla, is a model, not a fine-tuning approach. The course emphasizes: "Parameter-efficient fine-tuning methods like LoRA enable memory-efficient adaptation of LLMs by updating low-rank approximations of weight matrices, reducing resource demands while maintaining performance." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 30

You have developed a deep learning model for a recommendation system. You want to evaluate the performance of the model using

A/B testing. What is the rationale for using A/B testing with deep learning model performance?

- A. A/B testing ensures that the deep learning model is robust and can handle different variations of input data.
- **B. A/B testing allows for a controlled comparison between two versions of the model, helping to identify the version that performs better.**
- C. A/B testing methodologies integrate rationale and technical commentary from the designers of the deep learning model.
- D. A/B testing helps in collecting comparative latency data to evaluate the performance of the deep learning model.

Answer: B

Explanation:

A/B testing is a controlled experimentation method used to compare two versions of a system (e.g., two model variants) to determine which performs better based on a predefined metric (e.g., user engagement, accuracy).

NVIDIA's documentation on model optimization and deployment, such as with Triton Inference Server, highlights A/B testing as a method to validate model improvements in real-world settings by comparing performance metrics statistically. For a recommendation system, A/B testing might compare click-through rates between two models. Option B is incorrect, as A/B testing focuses on outcomes, not designer commentary. Option C is misleading, as robustness is tested via other methods (e.g., stress testing). Option D is partially true but narrow, as A/B testing evaluates broader performance metrics, not just latency.

References:

NVIDIA Triton Inference Server Documentation: <https://docs.nvidia.com/deeplearning/triton-inference-server/user-guide/docs/index.html>

NEW QUESTION # 31

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