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Looking for top-notch Implementing and Operating NVIDIA Generative AI LLMs (NCA-GENL) exam questions? You've come to the right place! iPassleader offers a comprehensive and affordable solution for all your NCA-GENL exam needs. Our NCA-GENL Exam Questions are regularly updated, and we provide a range of attractive features to enhance your preparation, including PDF format, an online practice test engine.

NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Software development: Covers the programming practices and coding skills required to build, maintain, and deploy generative AI applications.
Topic 3	• Data preprocessing and feature engineering: Covers preparing raw data through cleaning, transformation, and feature selection to make it suitable for model training.
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	• Prompt engineering: Focuses on techniques for designing and refining input prompts to effectively guide LLM outputs toward desired results.
Topic 6	• Alignment: Addresses methods for ensuring LLM behavior is safe, accurate, and consistent with human intentions and values.
Topic 7	• LLM integration and deployment: Addresses connecting LLMs into real-world applications and deploying them reliably across production environments.

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NVIDIA Generative AI LLMs Sample Questions (Q44-Q49):

NEW QUESTION # 44
In Natural Language Processing, there are a group of steps in problem formulation collectively known as word representations (also word embeddings). Which of the following are Deep Learning models that can be used to produce these representations for NLP tasks? (Choose two.)

- A. TensorRT
- B. Kubernetes
- C. BERT
- D. WordNet
- E. Word2vec

Answer: C,E

Explanation:
Word representations, or word embeddings, are critical in NLP for capturing semantic relationships between words, as emphasized in NVIDIA's Generative AI and LLMs course. Word2vec and BERT are deep learning models designed to produce these embeddings. Word2vec uses shallow neural networks (CBOW or Skip- Gram) to generate dense vector representations based on word co-occurrence in a corpus, capturing semantic similarities. BERT, a Transformer-based model, produces contextual embeddings by considering bidirectional context, making it highly effective for complex NLP tasks. Option B, WordNet, is incorrect, as it is a lexical database, not a deep learning model. Option C, Kubernetes, is a container orchestration platform, unrelated to NLP or embeddings. Option D, TensorRT, is an inference optimization library, not a model for embeddings.
The course notes: "Deep learning models like Word2vec and BERT are used to generate word embeddings, enabling semantic understanding in NLP tasks, with BERT leveraging Transformer architectures for contextual representations." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 45
Which metric is commonly used to evaluate machine-translation models?

- A. Perplexity
- B. BLEU score
- C. ROUGE score
- D. F1 Score

Answer: C

Explanation:
The BLEU (Bilingual Evaluation Understudy) score is the most commonly used metric for evaluating machine-translation models. It measures the precision of n-gram overlaps between the generated translation and reference translations, providing a quantitative measure of translation quality. NVIDIA's NeMo documentation on NLP tasks, particularly machine translation, highlights BLEU as the standard metric for assessing translation performance due to its focus on precision and fluency. Option A (F1 Score) is used for classification tasks, not translation. Option C (ROUGE) is primarily for summarization, focusing on recall.
Option D (Perplexity) measures language model quality but is less specific to translation evaluation.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html
Papineni, K., et al. (2002). "BLEU: A Method for Automatic Evaluation of Machine Translation."

NEW QUESTION # 46
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. Legal Responsibility
- C. Accountability
- D. Data Privacy

Answer: C

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 # 47
Which metric is primarily used to evaluate the quality of the text generated by language models?

- A. Perplexity
- B. Accuracy
- C. Recall
- D. Precision

Answer: A

Explanation:
Perplexity is the primary metric used to evaluate the quality of text generated by language models, as emphasized in NVIDIA's Generative AI and LLMs course. Perplexity measures how well a language model predicts a sequence of tokens, with lower values indicating better performance, as the model is less
"surprised" by the data. It is calculated as the exponentiated average negative log-likelihood of the tokens in a test set, reflecting the model's ability to assign high probabilities to correct sequences. In generative tasks, perplexity is widely used because it directly assesses the model's fluency and coherence. Option B, Precision, and Option C, Recall, are metrics for classification tasks, not text generation. Option D, Accuracy, is also irrelevant for evaluating generative quality, as it applies to categorical predictions. The course notes:
"Perplexity is a key metric for evaluating language models, measuring how well the model predicts text sequences, with lower perplexity indicating higher-quality generation." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 48
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 rule-based systems to manually define the characteristics of each category.
- B. Train the new model from scratch for each new category encountered.
- C. Use a large, labeled dataset for each possible category.
- D. Use a pre-trained language model with semantic embeddings.

Answer: D

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 # 49

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