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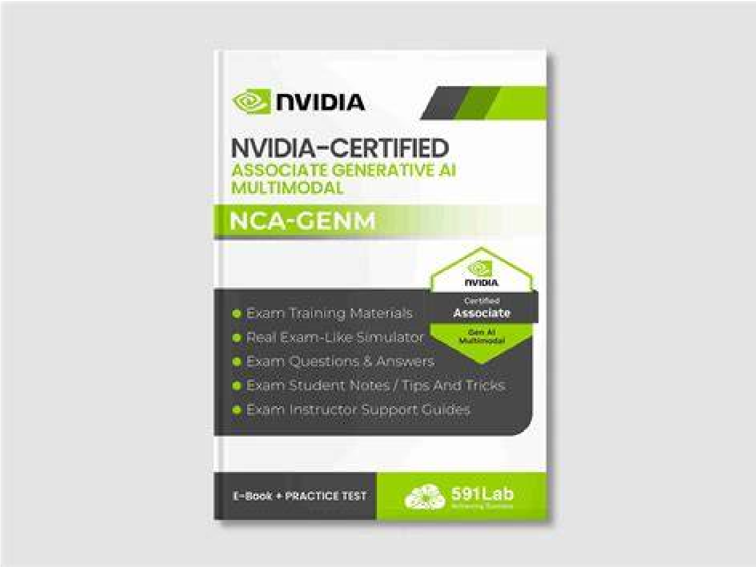

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NVIDIA NCA-GENM Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Experimentation	25%	- Metrics and validation strategies for generative models - Experiment design and methodology - Model training, fine-tuning, and evaluation
Topic 2: Multimodal Data	15%	- Characteristics of text, image, and audio data - Data preprocessing, fusion, and representation - Multimodal model architectures and integration
Topic 3: Data Analysis and Visualization	10%	- Visualization techniques for model behavior and results - Analyzing multimodal datasets and outputs - Interpretation of generative AI outputs
Topic 4: Core Machine Learning and AI Knowledge	20%	- Neural network architectures relevant to multimodal systems - Fundamental concepts of machine learning and deep learning - Generative AI principles and techniques
Topic 5: Performance Optimization	10%	- Hardware acceleration with NVIDIA platforms - Model efficiency and inference optimization - Scalability and deployment considerations
Topic 6: Trustworthy AI	5%	- Reliability, fairness, and safety in generative systems - Robustness and error mitigation - Ethical considerations and responsible use
Topic 7: Software Development and Engineering	15%	- Best practices for building and maintaining systems - Libraries, frameworks, and tools for multimodal AI - Development workflows for generative AI applications

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NVIDIA Generative AI Multimodal Sample Questions (Q32-Q37):

NEW QUESTION # 32
In the transformer architecture, what is the purpose of positional encoding?

- A. To encode the semantic meaning of each token in the input sequence.
- B. To remove redundant information from the input sequence.
- C. To encode the importance of each token in the input sequence.
- D. To add information about the order of each token in the input sequence.

Answer: D

Explanation:
Unlike recurrent architectures, which process tokens sequentially and thereby inherently encode order through the sequence of computation, the transformer's self-attention mechanism processes all tokens in parallel and is permutation-invariant by construction - attention scores between tokens do not inherently depend on their position in the sequence. Positional encoding solves this by injecting explicit information about each token's position into its input representation, typically by adding a positional vector (computed via fixed sinusoidal functions in the original "Attention Is All You Need" formulation, or learned as trainable embeddings in many modern variants) to the token's embedding before it enters the attention layers. Without this, "the cat sat on the mat" and "the mat sat on the cat" would be indistinguishable to the self-attention mechanism, since the same set of token embeddings would be processed identically regardless of order.
Semantic meaning (option A) is the role of the token embeddings themselves, learned separately from positional information - the two are combined (typically summed) but serve distinct purposes. Positional encoding does not remove information (C); it adds it. And while attention weights do effectively encode a learned notion of token importance relative to a query (option D), that importance-weighting mechanism is a separate, downstream function of the attention layers, not the role of positional encoding itself, which only supplies order information as an input feature.
Reference: Core Machine Learning and AI Knowledge domain - transformer architecture, self-attention, positional encoding.

NEW QUESTION # 33
You're training a multimodal model for generating stories from images and audio. You use a Transformer architecture. During training, you notice that the model struggles to maintain long-range dependencies in the generated stories, leading to incoherent narratives. Which of the following techniques would be MOST effective in addressing this issue within the Transformer architecture?

- A. Incorporating positional encodings and increasing the attention window size.
- B. Using a smaller embedding dimension.
- C. Removing the self-attention mechanism.
- D. Using only audio as input.
- E. Reducing the number of layers in the Transformer.

Answer: A

Explanation:
Positional encodings help the Transformer understand the order of words in the sequence, which is crucial for maintaining coherence. Increasing the attention window size allows the model to attend to a larger context when generating each word, enabling it to capture longer-range dependencies. Reducing layers or embedding dimension would likely worsen the problem. Removing self-attention would defeat the purpose of using a Transformer. Positional encodings and attention window size are key to transformer performance with respect to long range dependencies.

NEW QUESTION # 34
You are building a system that translates sign language videos into spoken text. You have a dataset of videos and corresponding text transcriptions. You notice that the test data contains significant variations in lighting conditions and camera angles compared to the training dat a. Which of the following techniques would be MOST effective in addressing this domain shift and improving the generalization of your model?

- A. Use a domain adaptation technique such as Domain Adversarial Neural Networks (DANN) to learn domain-invariant features.
- B. Reduce the size of the model to prevent overfitting to the training data.
- C. Only evaluate on a subset of the test data that closely resembles the training data.
- D. Apply aggressive data augmentation techniques to the training data, including random crops, rotations, and color jittering to simulate the variations in the test data.
- E. Fine-tune the model on a small subset of the test data to adapt to the specific characteristics of the test distribution.

Answer: A

Explanation:
Domain adaptation techniques (C) are specifically designed to address domain shift by learning features that are invariant to the source and target domains. Data augmentation (A) can help but might not be sufficient. Fine-tuning on test data (B) is data leakage and invalidates the test set. Reducing model size (D) may not address the core issue of domain shift. Selecting a subset of the test data (E) defeats the purpose of testing generalization.

NEW QUESTION # 35
You're building a system to translate customer service chat logs into summaries that a human agent can quickly review The chat logs are often informal, contain slang, and have grammatical errors. Which prompt engineering technique is MOST likely to improve the quality and accuracy of the summaries generated by a large language model (LLM)?

- A. Using chain-of-thought prompting to encourage the LLM to explain its reasoning process before generating the summary.
- B. Using a template prompt with predefined sections and keywords to guide the summarization process and ensure consistency across different chat logs.
- C. Using a zero-shot prompt with a simple instruction like 'Summarize this chat log.'
- D. Using a few-shot prompt with several examples of chat logs and their ideal summaries, explicitly demonstrating how to handle informality and errors.
- E. Using a negative constraint prompt, explicitly stating what the LLM should not include in the summary (e.g., 'Do not include greetings or farewells.').

Answer: A,B,D,E

Explanation:
Few-shot prompting provides the LLM with examples to learn from, allowing it to better handle the nuances of informal language and errors. Chain-of-thought helps the model reason step-by-step, leading to better summaries. Negative constraints prevent irrelevant information. Template prompts provide structure and consistency. A zero-shot prompt is less effective in this scenario due to the complexity of the input data.

NEW QUESTION # 36
You're tasked with building a model that can generate recipes from images of food. You decide to use a Variational Autoencoder (VAE) architecture. What would be a suitable loss function combination for this task, considering both reconstruction accuracy and recipe relevance?

- A. KL divergence loss only-
- B. KL divergence loss + Cosine Similarity loss between the generated image embedding and a text embedding of a random recipe.
- C. Reconstruction loss (MSE) between the input image and the decoded image only
- D. Reconstruction loss (MSE) + Perceptual loss (based on a pre-trained image classifier) only
- E. Reconstruction loss (MSE) + KL divergence loss + Cross-entropy loss between the generated recipe and a plausible recipe given the generated image embedding-

Answer: E

Explanation:
The Reconstruction loss ensures the generated image is similar to the input. KL divergence enforces a smooth latent space. The Cross-entropy loss ensures the generated recipe is relevant to the decoded image. Perceptual loss, while helpful for image quality, doesn't directly address recipe relevance. Using a text embedding of a random recipe would not guide the model towards generating relevant recipes.

NEW QUESTION # 37
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