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## NVIDIA NCA-GENM Exam Syllabus Topics:

| Section                                     | Weight | Objectives                                                                                                                                                         |
|---------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1: Experimentation                    | 25%    | <ul style="list-style-type: none"><li>- A/B testing</li><li>- Experimental design</li><li>- Model evaluation and comparison</li><li>- Hypothesis testing</li></ul> |
| Topic 2: Software Development & Engineering | 15%    | <ul style="list-style-type: none"><li>- Integration and deployment of multimodal AI systems</li><li>- Python libraries for multimodal AI</li></ul>                 |
| Topic 3: Performance Optimization           | 10%    | <ul style="list-style-type: none"><li>- Monitoring and improving system efficiency</li><li>- Techniques for optimizing AI performance</li></ul>                    |
| Topic 4: Multimodal Data                    | 15%    | <ul style="list-style-type: none"><li>- Applications and use cases</li><li>- Handling and integrating text, image, and audio data</li></ul>                        |
| Topic 5: Core ML & AI Knowledge             | 20%    | <ul style="list-style-type: none"><li>- Key algorithms and techniques</li><li>- Basic concepts and terminology</li></ul>                                           |
| Topic 6: Trustworthy AI                     | 5%     | <ul style="list-style-type: none"><li>- Ensuring fairness and transparency</li><li>- Ethical considerations in AI development</li></ul>                            |
| Topic 7: Data Analysis & Visualization      | 10%    | <ul style="list-style-type: none"><li>- Visualization techniques for multimodal data</li><li>- Data preprocessing and feature engineering</li></ul>                |

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## NCA-GENM Valid Braindumps Files | High Pass-Rate NCA-GENM: NVIDIA Generative AI Multimodal

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the NCA-GENM Exam. And you will pass the exam for the NCA-GENM exam questions are all keypoints.

## NVIDIA Generative AI Multimodal Sample Questions (Q51-Q56):

### NEW QUESTION # 51

You're building a multimodal model to predict stock prices using news articles (text) and historical price data (time series). You observe that the model performs well on the training data but poorly on unseen data. Which of the following techniques would be MOST effective in addressing this issue?

- A. Increase the size of the training dataset by collecting more news articles and historical price data.
- B. Add L1 or L2 regularization to the model's parameters.
- C. Use data augmentation techniques to generate more diverse variations of the existing data.
- **D. Implement early stopping based on the performance of the model on a validation set.**
- E. All of the above

**Answer: D**

Explanation:

All the listed techniques combat overfitting. Increasing data size provides more examples. Regularization penalizes complex models. Early stopping prevents training too long on the training data. Data augmentation creates more robust and generalizable model by artificially expanding data through techniques like Time series perturbation and Text paraphrasing.

### NEW QUESTION # 52

You're developing a multimodal system that takes an image and a short audio clip as input and generates a relevant story. You've trained the model, but you observe that the generated stories tend to heavily favor the content of the audio clip, largely ignoring the image. Which of the following techniques could you employ to better balance the influence of both modalities?

- A. Reduce the dimensionality of the audio embedding.
- B. Add more layers to the audio encoder.
- C. Increase the size of the training dataset, ensuring it contains more diverse audio clips.
- **D. Implement modality-specific scaling factors or attention mechanisms to dynamically adjust the contribution of each modality during the fusion process.**
- E. Increase the learning rate of the image encoder.

**Answer: D**

Explanation:

Modality-specific scaling factors and attention mechanisms provide a way to explicitly control the influence of each modality. Increasing the learning rate of the image encoder might help, but it's not a direct solution. Reducing audio embedding dimensionality could reduce its influence, but might also lose important information. A more diverse dataset is always good, but doesn't guarantee balanced influence. Adding more layers to the audio encoder might increase its dominance.

### NEW QUESTION # 53

Which of the following is NOT a typical application or benefit of using U-Net architectures in generative AI, particularly within the context of image generation and manipulation?

- A. Image segmentation and pixel-wise classification.
- **B. Encoding high-dimensional text data for multimodal embeddings.**
- C. Medical image analysis, such as tumor detection.
- D. Facilitating efficient feature extraction and upsampling for detailed image generation.
- E. Image inpainting and super-resolution tasks.

**Answer: B**

Explanation:

U-Nets are primarily used for image-to-image tasks like segmentation, inpainting, and super-resolution. They excel at processing and generating images, but are not directly involved in encoding text data. CLIP is used for that purpose.

### NEW QUESTION # 54

You're training a VQA (Visual Question Answering) model. During evaluation, you notice the model performs well on common object recognition tasks but struggles with questions requiring reasoning about object relationships or scene understanding. What are the MOST effective strategies to improve the model's performance on these complex reasoning tasks? (Choose two)

- A. Increase the size of the image embedding.
- **B. Train the model on a larger dataset with more diverse and complex questions/answers.**
- **C. Use a more sophisticated attention mechanism that attends to relevant image regions based on the question.**
- D. Decrease the learning rate.
- E. Replace the LSTM with a simpler RNN in the question encoder.

**Answer: B,C**

Explanation:

More sophisticated attention mechanisms help the model focus on relevant image regions. A larger, more diverse dataset provides the model with more examples of complex reasoning scenarios. Increasing the image embedding size may help but is not as targeted. Decreasing the learning rate is a general optimization technique, and using a simpler RNN would likely degrade performance.

### NEW QUESTION # 55

When deploying a multimodal Generative AI model for a real-time application, such as a virtual assistant that responds to voice commands and displays relevant images, which of the following considerations are MOST critical for ensuring low latency and a smooth user experience? (Select TWO)

- **A. Employ model quantization and pruning techniques to reduce model size and computational requirements.**
- **B. Utilize asynchronous processing and caching strategies to pre-compute and store frequently accessed data.**
- C. Disable any logging or monitoring to reduce overhead.
- D. Deploy the model on a single CPU core to minimize resource contention.
- E. Prioritize model accuracy over inference speed.

**Answer: A,B**

Explanation:

Model quantization and pruning reduce the model's size and computational complexity, leading to faster inference. Asynchronous processing and caching allow for pre-computation and storage of frequently used data, minimizing delays. Prioritizing accuracy over speed (A) is not suitable for real-time applications where responsiveness is crucial. Deploying on a single CPU core (D) would severely limit performance. Disabling logging (E) is detrimental for debugging and monitoring.

### NEW QUESTION # 56

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