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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• LLM Integration and Deployment: This section of the exam measures skills of AI Platform Engineers and covers connecting LLMs with applications or services through APIs, and deploying them securely and efficiently at scale. It also includes considerations for latency, cost, monitoring, and updates in production environments.
Topic 3	• 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 4	• Experiment Design

Topic 5	• 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 6	• 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 7	• 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 8	• Python Libraries for LLMs: This section of the exam measures skills of LLM Developers and covers using Python tools and frameworks like Hugging Face Transformers, LangChain, and PyTorch to build, fine-tune, and deploy large language models. It focuses on practical implementation and ecosystem familiarity.
Topic 9	• 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.

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NVIDIA Generative AI LLMs Sample Questions (Q96-Q101):

NEW QUESTION # 96
You are working on developing an application to classify images of animals and need to train a neural model.
However, you have a limited amount of labeled data. Which technique can you use to leverage the knowledge from a model pre-trained on a different task to improve the performance of your new model?

- A. Random initialization
- B. Early stopping
- C. Dropout
- D. Transfer learning

Answer: D

Explanation:
Transfer learning is a technique where a model pre-trained on a large, general dataset (e.g., ImageNet for computer vision) is fine-tuned for a specific task with limited data. NVIDIA's Deep Learning AI documentation, particularly for frameworks like NeMo and TensorRT, emphasizes transfer learning as a powerful approach to improve model performance when labeled data is scarce. For example, a pre-trained convolutional neural network (CNN) can be fine-tuned for animal image classification by reusing its learned features (e.g., edge detection) and adapting the final layers to the new task. Option A (dropout) is a regularization technique, not a knowledge transfer method. Option B (random initialization) discards pre- trained knowledge. Option D (early stopping) prevents overfitting but does not leverage pre-trained models.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model_finetuning.html

NVIDIA Deep Learning AI:https://www.nvidia.com/en-us/deep-learning-ai/

NEW QUESTION # 97
In the development of Trustworthy AI, what is the significance of 'Certification' as a principle?

- A. It requires AI systems to be developed with an ethical consideration for societal impacts.
- B. It involves verifying that AI models are fit for their intended purpose according to regional or industry- specific standards.
- C. It ensures that AI systems are transparent in their decision-making processes.
- D. It mandates that AI models comply with relevant laws and regulations specific to their deployment region and industry.

Answer: B

Explanation:
In the development of Trustworthy AI, 'Certification' as a principle involves verifying that AI models are fit for their intended purpose according to regional or industry-specific standards, as discussed in NVIDIA's Generative AI and LLMs course. Certification ensures that models meet performance, safety, and ethical benchmarks, providing assurance to stakeholders about their reliability and appropriateness. Option A is incorrect, as transparency is a separate principle, not certification. Option B is wrong, as ethical considerations are broader and not specific to certification. Option D is inaccurate, as compliance with laws is related but distinct from certification's focus on fitness for purpose. The course states: "Certification in Trustworthy AI verifies that models meet regional or industry-specific standards, ensuring they are fit for their intended purpose and reliable." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 98
What is the correct order of steps in an ML project?

- A. Model evaluation, Data preprocessing, Model training, Data collection
- B. Data collection, Data preprocessing, Model training, Model evaluation
- C. Data preprocessing, Data collection, Model training, Model evaluation
- D. Model evaluation, Data collection, Data preprocessing, Model training

Answer: B

Explanation:
The correct order of steps in a machine learning (ML) project, as outlined in NVIDIA's Generative AI and LLMs course, is: Data collection, Data preprocessing, Model training, and Model evaluation. Data collection involves gathering relevant data for the task. Data preprocessing prepares the data by cleaning, transforming, and formatting it (e.g., tokenization for NLP). Model training involves using the preprocessed data to optimize the model's parameters. Model evaluation assesses the trained model's performance using metrics like accuracy or F1-score. This sequence ensures a systematic approach to building effective ML models. Options A, B, and C are incorrect, as they disrupt this logical flow (e.g., evaluating before training or preprocessing before collecting data is not feasible). The course states: "An ML project follows a structured pipeline: data collection, data preprocessing, model training, and model evaluation, ensuring data is properly prepared and models are rigorously assessed." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 99
When designing an experiment to compare the performance of two LLMs on a question-answering task, which statistical test is most appropriate to determine if the difference in their accuracy is significant, assuming the data follows a normal distribution?

- A. Mann-Whitney U test
- B. Chi-squared test
- C. Paired t-test
- D. ANOVA test

Answer: C

Explanation:
The paired t-test is the most appropriate statistical test to compare the performance (e.g., accuracy) of two large language models

(LLMs) on the same question-answering dataset, assuming the data follows a normal distribution. This test evaluates whether the mean difference in paired observations (e.g., accuracy on each question) is statistically significant. NVIDIA's documentation on model evaluation in NeMo suggests using paired statistical tests for comparing model performance on identical datasets to account for correlated errors.
Option A (Chi-squared test) is for categorical data, not continuous metrics like accuracy. Option C (Mann- Whitney U test) is non-parametric and used for non-normal data. Option D (ANOVA) is for comparing more than two groups, not two models.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model_finetuning.html

NEW QUESTION # 100
What distinguishes BLEU scores from ROUGE scores when evaluating natural language processing models?

- A. BLEU scores analyze syntactic structures, while ROUGE scores evaluate semantic accuracy.
- B. BLEU scores measure model efficiency, whereas ROUGE scores assess computational complexity.
- C. BLEU scores evaluate the 'precision' of translations, while ROUGE scores focus on the 'recall' of summarized text.
- D. BLEU scores determine the fluency of text generation, while ROUGE scores rate the uniqueness of generated text.

Answer: C

Explanation:
BLEU (Bilingual Evaluation Understudy) and ROUGE (Recall-Oriented Understudy for Gisting Evaluation) are metrics used to evaluate natural language processing (NLP) models, particularly for tasks like machine translation and text summarization. According to NVIDIA's NeMo documentation on NLP evaluation metrics, BLEU primarily measures the precision of n-gram overlaps between generated and reference translations, making it suitable for assessing translation quality. ROUGE, on the other hand, focuses on recall, measuring the overlap of n-grams, longest common subsequences, or skip-bigrams between generated and reference summaries, making it ideal for summarization tasks. Option A is incorrect, as BLEU and ROUGE do not measure fluency or uniqueness directly. Option B is wrong, as both metrics focus on n-gram overlap, not syntactic or semantic analysis. Option D is false, as neither metric evaluates efficiency or complexity.
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." Lin, C.-Y. (2004). "ROUGE: A Package for Automatic Evaluation of Summaries."

NEW QUESTION # 101
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