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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Experimentation: This section of the exam measures the skills of ML Engineers and covers how to conduct structured experiments with LLMs. It involves setting up test cases, tracking performance metrics, and making informed decisions based on experimental outcomes.:
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	• 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	• 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 6	• Software Development: This section of the exam measures the skills of Machine Learning Developers and covers writing efficient, modular, and scalable code for AI applications. It includes software engineering principles, version control, testing, and documentation practices relevant to LLM-based development.

Topic 7	• 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.

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NVIDIA Generative AI LLMs Sample Questions (Q67-Q72):

NEW QUESTION # 67
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. Paired t-test
- C. ANOVA test
- D. Chi-squared test

Answer: B

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 # 68
You are using RAPIDS and Python for a data analysis project. Which pair of statements best explains how RAPIDS accelerates data science?

- A. RAPIDS enables on-GPU processing of computationally expensive calculations and minimizes CPU- GPU memory transfers.
- B. RAPIDS provides lossless compression of CPU-GPU memory transfers to speed up data analysis.
- C. RAPIDS is a Python library that provides functions to accelerate the PCIe bus throughput via word- doubling.

Answer: A

Explanation:
RAPIDS is a suite of open-source libraries designed to accelerate data science workflows by leveraging GPU processing, as emphasized in NVIDIA's Generative AI and LLMs course. It enables on-GPU processing of computationally expensive calculations, such as data preprocessing and machine learning tasks, using libraries like cuDF and cuML. Additionally, RAPIDS minimizes CPU-GPU memory transfers by performing operations directly on the GPU, reducing latency and improving performance.

Options A and B are identical and correct, reflecting RAPIDS' core functionality. Option C is incorrect, as RAPIDS does not focus on PCIe bus throughput or "word-doubling," which is not a relevant concept. Option D is wrong, as RAPIDS does not rely on lossless compression for acceleration but on GPU-parallel processing. The course notes: "RAPIDS accelerates data science by enabling GPU-based processing of computationally intensive tasks and minimizing CPU-GPU memory transfers, significantly speeding up workflows." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 69
In the context of machine learning model deployment, how can Docker be utilized to enhance the process?

- A. To reduce the computational resources needed for training models.
- B. To automatically generate features for machine learning models.
- C. To provide a consistent environment for model training and inference.
- D. To directly increase the accuracy of machine learning models.

Answer: C

Explanation:
Docker is a containerization platform that ensures consistent environments for machine learning model training and inference by packaging dependencies, libraries, and configurations into portable containers.
NVIDIA's documentation on deploying models with Triton Inference Server and NGC (NVIDIA GPU Cloud) emphasizes Docker's role in eliminating environment discrepancies between development and production, ensuring reproducibility. Option A is incorrect, as Docker does not generate features. Option C is false, as Docker does not reduce computational requirements. Option D is wrong, as Docker does not affect model accuracy.
References:
NVIDIA Triton Inference Server Documentation: https://docs.nvidia.com/deeplearning/triton-inference-server /user-guide/docs/index.html
NVIDIA NGC Documentation: https://docs.nvidia.com/ngc/ngc-overview/index.html

NEW QUESTION # 70
Which of the following principles are widely recognized for building trustworthy AI? (Choose two.)

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

Answer: D,E

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 # 71
Which of the following claims is correct about TensorRT and ONNX?

- A. TensorRT is used for model creation and ONNX is used for model deployment.
- B. TensorRT is used for model creation and ONNX is used for model interchange.
- C. TensorRT is used for model deployment and ONNX is used for model creation.

- D. TensorRT is used for model deployment and ONNX is used for model interchange.

Answer: D

Explanation:
NVIDIA TensorRT is a deep learning inference library used to optimize and deploy models for high- performance inference, while ONNX (Open Neural Network Exchange) is a format for model interchange, enabling models to be shared across different frameworks, as covered in NVIDIA's Generative AI and LLMs course. TensorRT optimizes models (e.g., via layer fusion and quantization) for deployment on NVIDIA GPUs, while ONNX ensures portability by providing a standardized model representation. Option B is incorrect, as ONNX is not used for model creation but for interchange. Option C is wrong, as TensorRT is not for model creation but optimization and deployment. Option D is inaccurate, as ONNX is not for deployment but for model sharing. The course notes: "TensorRT optimizes and deploys deep learning models for inference, while ONNX enables model interchange across frameworks for portability." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 72
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