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>> NVIDIA NCP-AAI Exam Fragen <<

NVIDIA NCP-AAI Fragen und Antworten, Agentic AI Prüfungsfragen

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NVIDIA NCP-AAI Prüfungsplan:

Thema	Einzelheiten
Thema 1	• Run, Monitor, and Maintain: Addresses the ongoing operation, health monitoring, and routine maintenance of agentic systems after deployment.
Thema 2	• Safety, Ethics, and Compliance: Covers the principles and practices needed to ensure agents operate responsibly, ethically, and within legal and regulatory requirements.
Thema 3	• Knowledge Integration and Data Handling: Covers how agents integrate external knowledge sources and manage diverse data types to support informed decision-making.
Thema 4	• NVIDIA Platform Implementation: Focuses on leveraging NVIDIA's AI hardware and software stack to build and optimize agentic AI systems.
Thema 5	• Agent Architecture and Design: Covers how agentic AI systems are structured, including how agents reason, communicate, and interact within single-agent and multi-agent environments.

NVIDIA Agentic AI NCP-AAI Prüfungsfragen mit Lösungen (Q74-Q79):

74. Frage
When analyzing suboptimal agent response quality after deployment, which parameter tuning evaluation methods effectively identify the optimal configuration adjustments? (Choose two.)

- A. Design ablation studies systematically varying individual parameters while holding others constant to isolate each parameter's impact on agent behavior and performance.
- B. Randomly adjust all parameters simultaneously, allowing for broader exploration of the parameter space in a shorter time frame.
- C. Use production traffic directly for parameter experiments, enabling real-world insights and faster identification of impactful settings.
- D. Apply identical parameter settings across all agent types and tasks, promoting consistency and simplifying comparison across different use cases.
- E. Implement A/B testing frameworks comparing temperature, top-k, and top-p variations while measuring task-specific quality metrics and user satisfaction scores.

Antwort: A,E

Begründung:
The decisive point is failure isolation: the combination of Options A and C keeps the agent's decision path observable instead of burying behavior inside one prompt or one service. Together, A states "Design ablation studies systematically varying individual parameters while holding others constant to isolate each parameter's impact on agent behavior and performance."; C states "Implement A/B testing frameworks comparing temperature, top-k, and top-p variations while measuring task-specific quality metrics and user satisfaction scores.", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer. Ablation isolates parameter impact; A/B testing validates it against user-facing quality.
Random simultaneous changes destroy causal interpretation. The implementation detail that matters is repeatable benchmark suites that separate accuracy, cost, latency, reliability, and human satisfaction rather than blending them into one vague score. The stack-level anchor is clear: the NVIDIA stack makes it possible to correlate model-serving metrics with workflow events and user-visible task failures. The losing choices mostly optimize for short-term convenience; offline benchmarks alone cannot expose live API failures, schema drift, queue saturation, or feedback-driven dissatisfaction. That is the difference between an agent that works in a notebook and an agent that remains reliable in production.

75. Frage
When analyzing performance bottlenecks in a multi-modal agent processing customer support tickets with text, images, and voice inputs, which evaluation approach most effectively identifies optimization opportunities?

- A. Optimize each modality independently using dedicated profiling of cross-modal interactions, shared resource constraints, and pipeline execution strategies.
- B. Extend evaluation to accuracy and quality metrics, incorporating resource usage patterns, latency observations, and their impact on user experience.
- C. Measure total response time as this analyzes aggregated performance trends across modalities, model loading times, and opportunities for parallel execution.
- D. Profile end-to-end latency across modalities, measure model switching overhead, analyze batch processing opportunities, and evaluate Triton's dynamic batching for multi-modal workloads.

Antwort: D

Begründung:
The implementation detail that matters is measuring queue time, compute time, execution count, and memory pressure instead of guessing from average response time. This is a lifecycle problem, not a wording problem, and Option B gives the team a controllable lifecycle for the agent behavior. Multimodal latency is a pipeline property. Profiling text, image, and voice paths together reveals switching overhead, queuing, and dynamic batching opportunities. For a production build, Triton's metrics make GPU and model behavior visible enough to correlate batching efficiency with user-facing latency. The selected option specifically B states "Profile end-to-end latency across modalities, measure model switching overhead, analyze batch processing opportunities, and evaluate Triton's dynamic batching for multi-modal workloads.", which matches the operational requirement rather than a superficial wording match. The rejected options are weaker because tuning one component in isolation or relying on FP32/default settings leaves GPU memory bandwidth, batching windows, and queuing delay unmanaged. That is the difference between an agent that works in a notebook and an agent that remains reliable in production.

76. Frage
When evaluating GPU utilization inefficiencies in deploying Llama Nemotron models across A100 and H100 clusters, which approaches help identify optimal resource allocation strategies? (Choose two.)

- A. Profile resource utilization for each Nemotron variant and match models to appropriate GPU tiers.
- B. Assess concurrent execution capabilities by employing multi-instance GPU partitioning for varying workload types.
- C. Allocate all agents to Hl00 GPUs, allowing resource profiles to automatically adjust for model size and computational requirements.
- D. Allow Nemotron variants to profile actual workload characteristics and allocate resources based on observed demands.

Antwort: A,B

Begründung:
The decisive point is failure isolation: the combination of Options B and D keeps the agent's decision path observable instead of burying behavior inside one prompt or one service. Together, B states "Profile resource utilization for each Nemotron variant and match models to appropriate GPU tiers."; D states "Assess concurrent execution capabilities by employing multi-instance GPU partitioning for varying workload types.", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer. Profiling each Nemotron variant and using MIG/concurrent execution where appropriate gives resource fit. Sending every workload to H100s wastes premium capacity. The runtime should therefore be built around matching model precision, batch windows, model instances, and GPU memory behavior to the latency service- level objective. The stack-level anchor is clear: TensorRT-LLM and NIM reduce inference overhead, but they still need serving-level tuning to avoid queue buildup under concurrency. The losing choices mostly optimize for short-term convenience; hardware upgrades alone do not fix poor batching, serial ensembles, guardrail overhead, or KV-cache pressure. The answer is therefore about engineered control planes, not simply model capability.

77. Frage
Which two optimization strategies are MOST effective for improving agent performance on NVIDIA GPU infrastructure? (Choose two.)

- A. Applying TensorRT-LLM optimizations to reduce inference latency by improving kernel efficiency and memory usage.

- B. Manually tuning kernel launch parameters to optimize individual operations while overlooking overall pipeline performance dynamics.
- C. Expanding GPU memory capacity to support larger models, assuming this alone guarantees meaningful performance improvements.
- D. Using multi-GPU coordination to distribute workloads, enabling higher throughput and efficiency for scaling agent tasks.

Antwort: A,D

Begründung:
The best answer is the combination of Options A and B when the design is judged by reliability, latency budget, auditability, and maintainability rather than demo simplicity. Multi-GPU coordination increases throughput; TensorRT-LLM improves kernel efficiency and memory behavior. More memory alone does not guarantee speed. Operationally, the design depends on profiling the request path from ingress through guardrails, routing, Triton scheduling, TensorRT-LLM execution, and response assembly. Together, A states
"Using multi-GPU coordination to distribute workloads, enabling higher throughput and efficiency for scaling agent tasks."; B states "Applying TensorRT-LLM optimizations to reduce inference latency by improving kernel efficiency and memory usage.", so the answer covers both sides of the requirement instead of solving only the model or only the infrastructure layer. The alternatives would look simpler in a prototype, but overlarge batches may improve throughput while violating interactive latency targets. The stack-level anchor is clear: NVIDIA Perf Analyzer, GenAI-Perf, Nsight, and Triton metrics help isolate whether the bottleneck is batching, compute, memory, or request scheduling. It also creates clean evidence for audits, incident review, and root-cause analysis when behavior drifts.

78. Frage
In a global financial firm, an AI Architect is building a multi-agent compliance assistant using an agentic AI framework. The system must manage short-term memory for multi-turn interactions and long-term memory for persistent user and policy context. It should enable contextual recall and adaptation across sessions using NVIDIA's tool stack.
Which architectural approach best supports these requirements?

- A. Leverage RAPIDS cuDF for memory tracking by streaming multi-turn conversation logs as GPU- resident data frames, assuming transactional history can be recalled and reasoned over using dataframe operations.
- B. Rely exclusively on TensorRT to encode all prior knowledge into compiled model weights, allowing inference-only execution with no external memory dependencies across sessions.
- C. Leverage NVIDIA NeMo Framework with modular memory management, integrating conversational state tracking, knowledge graphs, and vector store retrieval, while using LoRA-tuned models to adapt responses overtime.
- D. Leverage NVIDIA Triton Inference Server with dynamic batching to cache session-level inputs between inference calls, and use an external Redis store for long-term memory.

Antwort: C

Begründung:
Compliance assistants need both ephemeral turn state and durable policy/user context. NeMo plus vector /graph memory is a better fit than pretending TensorRT stores historical knowledge. That matters because separate short-term context for the current task and long-term memory for preferences, history, and durable domain facts. The selected option specifically A states "Leverage NVIDIA NeMo Framework with modular memory management, integrating conversational state tracking, knowledge graphs, and vector store retrieval, while using LoRA-tuned models to adapt responses overtime.", which matches the operational requirement rather than a superficial wording match. Option A wins because it optimizes the system boundary around the risky component rather than hoping the base model behaves consistently. The alternatives would look simpler in a prototype, but fine-tuning alone cannot store frequently changing facts, and RAG alone does not train better habitual behavior. The NVIDIA implementation angle is not cosmetic here: NeMo-style training and retrieval workflows distinguish learned behavior from recallable enterprise knowledge. The result is a system that can be benchmarked, traced, and revised without destabilizing the whole agent fabric.

79. Frage
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NVIDIA NCP-AAI Prüfungssoftware will Ihrer Hoffnung nicht enttäuschen. Wir wünschen Ihnen viel Erfolg bei der Prüfung!

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