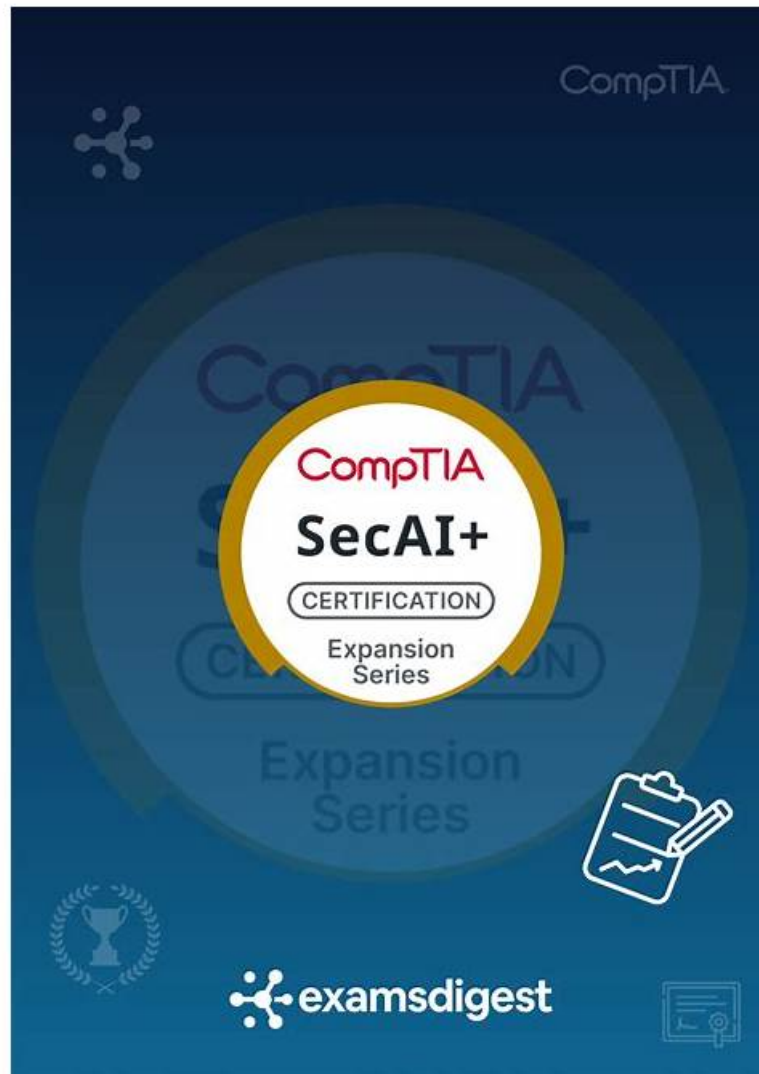


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CompTIA SecAI+ Certification Exam Sample Questions (Q122-Q127):

NEW QUESTION # 122

An AI architect reviews AI utilization and wants to improve the user experience. Which of the following should the architect review within the logs?

- A. Access controls
- **B. Model accuracy**
- C. Data storage
- D. Rate monitoring

Answer: B

Explanation:

To improve user experience, the architect should review model accuracy in the logs. High accuracy ensures users receive relevant, reliable responses, directly impacting satisfaction and effectiveness of the AI system.

NEW QUESTION # 123

A company introduces a large language model (LLM) in an application in order to monitor for a potential denial-of-service attack. Which of the following should the company use to measure the utilization of the LLM?

- **A. Token**
- B. Prompt
- C. Chain of thoughts
- D. Transformer

Answer: A

Explanation:

Basic Concept: LLMs process and generate text as discrete units called tokens, which represent words or word pieces. The number of tokens consumed is the primary metric for LLM resource utilization and billing.

Understanding token consumption is essential for both performance monitoring and cost management.

CompTIA SecAI+ Study Guide covers token-based measurement under AI system management.

Why A is Correct: Tokens are the fundamental unit of measurement for LLM utilization. Both input tokens sent in prompts and output tokens generated in responses are counted. Token consumption directly correlates with computational resource usage, response time, and API cost. Monitoring token counts enables the company to establish usage baselines and detect the abnormal token consumption spikes associated with DoS attacks or denial-of-wallet attacks against the LLM.

Why B is Wrong: A transformer is the neural network architecture that underlies modern LLMs. It is an architectural description, not a measurable utilization metric. You cannot quantify LLM resource consumption in "transformers." Why C is Wrong: Chain of thought is a prompting technique that encourages models to reason step-by-step before providing answers. It is an inference strategy for improving response quality, not a unit of measurement for monitoring LLM utilization or resource consumption.

Why D is Wrong: A prompt is the input text submitted to the LLM. While monitoring prompt volumes provides request count information, tokens provide a more granular and meaningful utilization metric because they capture both the complexity of inputs and the length of generated outputs.

NEW QUESTION # 124

Which of the following improves the observability and auditing of an AI system?

- **A. Implementing machine learning operations (MLOps)**
- B. Redeploying the model
- C. Using manual detection
- D. Using anomaly detections

Answer: A

Explanation:

Basic Concept: Observability in AI systems refers to the ability to monitor, log, trace, and audit the behavior of AI models in production. MLOps is the operational discipline that establishes the processes, tooling, and practices for managing AI systems throughout their lifecycle. CompTIA SecAI+ Study Guide covers MLOps as a key mechanism for AI system transparency and auditability.

Why C is Correct: MLOps implements comprehensive monitoring, logging, versioning, and audit pipelines for AI systems. It provides observability through model performance tracking, data drift detection, prediction logging, lineage tracking, and audit trails. MLOps platforms enable organizations to understand what their AI models are doing, why they are making certain decisions, and how their behavior changes over time, directly improving observability and auditing.

Why A is Wrong: Redeploying a model is an operational action taken to restore a previous version or apply updates. It does not improve monitoring infrastructure, logging capabilities, or auditing frameworks for ongoing observability.

Why B is Wrong: Manual detection relies on human observation to identify issues. It is labor-intensive, inconsistent, and not scalable for AI systems processing high volumes of data. It does not provide systematic observability or comprehensive audit trails.

Why D is Wrong: Anomaly detection identifies unusual patterns in data or behavior. While useful as a monitoring component within an observability strategy, it is a single technique and does not encompass the full observability and auditing capabilities provided by a comprehensive MLOps implementation.

NEW QUESTION # 125

An organization deploys a browser-based AI plug-in to detect malicious websites and phishing links in corporate email. Which of the following techniques is used in this AI plug-in?

- A. Automated incident response
- **B. Pattern recognition and signature matching**
- C. Automated penetration testing
- D. Code quality testing

Answer: B

Explanation:

Basic Concept: AI-based security tools for detecting malicious websites and phishing links operate by analyzing URLs, page content, and link characteristics against known malicious patterns and behavioral signatures. CompTIA SecAI+ Study Guide covers pattern recognition and signature matching as fundamental AI-assisted threat detection techniques.

Why B is Correct: Pattern recognition and signature matching are the core techniques used in malicious website and phishing link detection. The AI plug-in uses pattern recognition to identify characteristics of phishing pages such as login form structures mimicking legitimate sites, suspicious domain patterns, and redirect behaviors. Signature matching compares URLs and page content against databases of known malicious sites and phishing infrastructure. Together these techniques enable accurate detection of threats in email links before users click them.

Why A is Wrong: Code quality testing analyzes source code for bugs, vulnerabilities, and adherence to coding standards during software development. It has no application for detecting malicious websites or phishing links in real-time email scanning.

Why C is Wrong: Automated penetration testing proactively exploits vulnerabilities to assess security posture.

It is an offensive security assessment technique, not a real-time threat detection technique for identifying malicious links in email.

Why D is Wrong: Automated incident response executes predefined response actions when security incidents are detected, such as isolating endpoints or blocking users. It operates after threats are detected, not during the detection phase that identifies malicious websites and links.

NEW QUESTION # 126

Which of the following describe the practice of providing examples in a prompt? (Choose two.)

- A. User prompt
- B. Quantization
- **C. One-shot**
- **D. Multi-shot**
- E. Prompt template
- F. System prompt

Answer: C,D

Explanation:

Basic Concept: Prompting techniques for LLMs include various approaches to guide model behavior.

Providing examples within prompts is a powerful technique that leverages the model's in-context learning capability to guide response format and quality. CompTIA SecAI+ Study Guide covers prompting techniques under basic AI concepts.

Why E is Correct: One-shot prompting involves providing exactly one example within a prompt to demonstrate to the model the desired input-output format or response style. This single example guides the model's understanding of the task without requiring extensive fine-tuning. It is a well-established prompting technique that uses examples to inform model behavior.

Why F is Correct: Multi-shot prompting (also called few-shot prompting) involves providing multiple examples within a prompt to further clarify the desired output pattern. Multiple examples help the model identify consistent patterns and produce more accurate, consistent responses. Both one-shot and multi-shot are specifically defined by their use of examples in prompts.

Why A is Wrong: A user prompt is the input message submitted by a user to the AI system. It is the general term for any user input, not a specific technique that describes the practice of providing examples.

Why B is Wrong: A system prompt sets the model's behavior, persona, and constraints at the session level.

While a system prompt could contain examples, the term specifically refers to the system-level instruction context, not the technique of example provision.

Why C is Wrong: A prompt template is a reusable structured format with placeholders for variable inputs. It standardizes prompt structure but is not defined by the practice of including examples.

Why D is Wrong: Quantization is a model compression technique that reduces model size by representing weights with lower precision numbers. It is a model optimization technique completely unrelated to prompting practices.

NEW QUESTION # 127

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