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CompTIA SecAI+ Certification Exam Objectives

EXAM NUMBER: CY0-001 V1

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CompTIA SecAI+ Certification Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

A customer-facing, AI-powered chatbot has been jailbroken through prompt injections. As a result, the AI model is offering a 99% discount on the purchase of a new vehicle. Which of the following should be implemented to enhance the model's robustness against such attacks?

- A. Log monitoring
- B. Bias filtering
- **C. Guardrails**
- D. System prompt

Answer: C

Explanation:

Guardrails enforce strict rules on what the AI model can and cannot do, preventing malicious prompt injections from overriding intended behavior. In this case, guardrails would stop the chatbot from generating unauthorized offers such as extreme discounts.

NEW QUESTION # 48

A security alert triggers an agentic system. An analyst notices the following payload in the logs"

The alert includes multiple shell commands that are not typically run as part of any hardening.

Which of the following is the most effective control to implement?

- A. Modifying the application to ignore the SECURITY_UPDATE tag
- B. Using only approved libraries when interacting with agentic systems
- C. Deprecating model usage and retaining the model with safer parameters
- **D. Adding logic that includes approved strings before running the shell commands**

Answer: D

Explanation:

The payload in the alert attempts to trick the system into executing unauthorized shell commands.

The most effective control is to implement allow-list validation (approved strings) before execution. This ensures that only predefined, safe commands are executed, blocking prompt injection attempts that introduce malicious code such as the fake patch script.

NEW QUESTION # 49

Which of the following is the most concerning risk for a company that allows corporate end users to use public-facing large language models (LLMs)?

- A. Out-of-date acceptable use policies
- B. Inaccuracies due to hallucinations
- **C. Data security regulatory violations**
- D. Malicious code generation

Answer: C

Explanation:

The greatest concern with employees using public-facing LLMs is the potential exposure of sensitive or regulated corporate data. Submitting such information to external systems may violate data protection laws (e.g., GDPR, HIPAA), creating legal and compliance risks that outweigh issues like hallucinations or malicious outputs.

NEW QUESTION # 50

Which of the following is required first in order to send a prompt query and response in a language model (LLM) system when authentication is enabled?

- **A. Endpoint access control**

- B. Back-end access gateway
- C. Application programming interface gateway
- D. Front-end web proxy gateway

Answer: A

Explanation:

When authentication is enabled, the first requirement for sending a prompt query and receiving a response is endpoint access control. It ensures only authenticated and authorized users or systems can interact with the LLM endpoint.

NEW QUESTION # 51

An internal user enters a client credit card number into an internal generative machine learning (ML) model:

#User prompt: Customer Jane Doe has a new credit card that she wants to add to her account. The number is 5555-5555-5555-5555 Which of the following is the most effective way to prevent prompt injection attacks against a large language model (LLM)?

- A. Antivirus
- B. Role-based access control
- **C. Guardrails**
- D. Web application firewall (WAF)

Answer: C

Explanation:

Guardrails are the primary security control for LLMs to prevent prompt injection attacks. They enforce rules on what inputs are accepted and how the model responds, blocking malicious or sensitive prompts (such as credit card numbers) before they can manipulate or exploit the model.

NEW QUESTION # 52

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