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CompTIA CY0-001 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Basic AI Concepts Related to Cybersecurity	17%	- AI applications in security • 1. Threat detection and anomaly analysis • 2. Security automation and decision support - Core AI principles and terminology • 1. Machine learning, deep learning, NLP, automation • 2. Generative AI concepts and capabilities - AI-driven threats and risks • 1. Malicious use of generative AI • 2. Adversarial machine learning attacks • 3. Automated phishing, polymorphic malware
Topic 2: AI Governance, Risk and Compliance	19%	- Governance frameworks and policies • 1. Responsible AI principles and ethics • 2. Organizational AI governance structures • 3. Global standards: NIST AI RMF, EU AI Act - Risk management for AI • 1. Risk mitigation and control strategies • 2. AI risk identification and assessment - Compliance and legal requirements • 1. Data protection and privacy laws • 2. Transparency, accountability and auditability

Topic 3: Securing AI Systems	40%	- Security controls for AI systems • 1. Model security: access, integrity, anti-tampering • 2. Data protection: integrity, confidentiality, privacy • 3. Deployment environment security - Defending against AI-specific attacks • 1. Prompt injection, data poisoning, model inversion • 2. Threat modeling for AI lifecycles • 3. Adversarial example defense - Secure AI development and operations • 1. DevSecOps integration for AI • 2. Secure MLOps and AI pipeline design
Topic 4: AI-assisted Security	24%	- AI for threat detection and response • 1. Automated incident triage and correlation • 2. Anomaly detection and behavioral analysis • 3. Accelerated threat hunting - AI in security strategy and operations • 1. Compliance monitoring and auditing • 2. Threat modeling and risk assessment - Security automation and orchestration • 1. Workflow automation and response playbooks • 2. Vulnerability management and assessment

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CompTIA SecAI+ Certification Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38
Users report that the output of a generative AI application seems unrelated to the prompts and contains offensive content. A security team investigates and determines that there was an on-path attack.
Which of the following is the most likely attack method?

- A. Session hijacking
- B. Application server hijacking
- C. Model hijacking
- D. Domain hijacking

Answer: A

Explanation:
Basic Concept: An on-path (formerly man-in-the-middle) attack intercepts communication between two parties, allowing the attacker to read, modify, or inject content. In the context of a generative AI application, an on-path attack on the session between

user and AI service can manipulate prompts being sent to the model or responses being returned to users. CompTIA SecAI+ covers AI-specific attack vectors under securing AI systems.
Why B is Correct: Session hijacking involves an attacker taking control of an active user session by capturing or forging session tokens. In this attack, the attacker intercepts the communication channel between users and the AI application, allowing them to modify prompts sent to the model or replace legitimate model responses with offensive content. This explains why outputs seem unrelated to prompts and contain offensive material.
Why A is Wrong: Application server hijacking involves gaining unauthorized control of the server hosting the application. While severe, this would typically manifest as complete service disruption or data exfiltration rather than targeted modification of individual user session content.
Why C is Wrong: Domain hijacking involves unauthorized transfer of a domain name registration, redirecting all users to a different IP address. This would affect all users simultaneously and typically redirect to a completely different site rather than manipulating individual AI responses.
Why D is Wrong: Model hijacking refers to attacks that steal or replicate an AI model, not to intercepting and modifying the communication between users and an existing model during active sessions.

NEW QUESTION # 39
Which of the following describe the practice of providing examples in a prompt? (Choose two.)

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

Answer: B,C

Explanation:
Providing examples in a prompt is referred to as one-shot prompting when a single example is given and multi-shot prompting when multiple examples are provided.

NEW QUESTION # 40
A security administrator needs to improve an AI model. During an initial investigation, the administrator notices that two successive login features are recorded every day, and then a successful login occurs after a specific time interval. All the successful login attempts have been during office hours.
Which of the following techniques should the administrator use to improve the AI model's security?

- A. Signature matching
- B. Vulnerability analysis
- C. Pattern recognition
- D. Access management

Answer: C

Explanation:
The administrator is analyzing repeated login behaviors and time-based patterns that precede successful access. Pattern recognition allows the AI model to detect these behavioral trends, improving its ability to identify anomalies or potential attacks while aligning with normal office-hour login behavior.

NEW QUESTION # 41
When should containment occur during the incident response lifecycle?

- A. After lessons learned
- B. Immediately after recovery
- C. Before identification
- D. Before eradication

Answer: D

Explanation:
Containment follows identification and precedes eradication.

NEW QUESTION # 42
A security operations center (SOC) has a very high volume of logs and alerts. The manager proposes the implementation of a machine learning (ML) system to help with triage.
Which of the following tasks is most suitable?

- A. Identifying and classifying alerts
- B. Automatically patching vulnerable systems
- C. Applying filters on specific alerts
- D. Summarizing the content of alerts

Answer: A

Explanation:
Basic Concept: ML models excel at classification tasks, learning to assign incoming data points to predefined categories based on patterns in training data. In a SOC context, alert classification is the highest-value triage function ML can perform. CompTIA SecAI+ Exam Objectives address AI-assisted security operations under Domain 3.
Why C is Correct: ML-based alert classification automatically analyzes characteristics of each alert and assigns it to a severity category such as critical, high, medium, or low, or to a threat type such as malware or intrusion attempt. This dramatically reduces analyst workload and speeds triage by prioritizing which alerts demand immediate human attention, directly solving the high-volume problem.
Why A is Wrong: Applying filters on specific alerts is a rule-based operation achievable without ML using simple log management tools. It requires no learning capability and does not adapt to new or evolving threats.
Why B is Wrong: Automatically patching systems is a remediation action requiring validated, controlled processes. Having an ML system autonomously patch production systems without human oversight poses unacceptable operational and security risk.
Why D is Wrong: Summarizing alert content is a useful generative AI function but does not provide prioritization value for triage. Classification tells analysts what to act on first; summarization only rephrases existing information.

NEW QUESTION # 43
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