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CompTIA SecAI+ Certification Exam Sample Questions (Q46-Q51):

NEW QUESTION # 46

A healthcare organization plans to deploy a chatbot for appointment scheduling and patient records. Which of the following is the first step a security administrator should take?

- **A. Conduct a risk assessment.**
- B. Enable role-based access management
- C. Use a secure data communication channel for chat.
- D. Implement prompt firewalls.

Answer: A

Explanation:

Before deploying an AI chatbot that will handle sensitive healthcare data, the first step is to conduct a risk assessment. This identifies potential threats, compliance requirements (such as HIPAA), and security gaps, ensuring proper controls are planned before implementation.

NEW QUESTION # 47

A cybersecurity analyst must use pattern recognition on a data set containing unstructured data. Which of the following models is the best for this task?

- A. Long short-term memory
- B. Decision tree
- **C. Convolutional neural network**
- D. Logistic regression

Answer: C

Explanation:

Convolutional neural networks (CNNs) are highly effective at detecting patterns in unstructured data such as images, audio, or text embeddings. Their ability to automatically learn spatial or hierarchical features makes them the best choice for pattern recognition on unstructured datasets.

NEW QUESTION # 48

A machine learning (ML) engineer is working with a security engineer to identify the best practices for securing a system with various AI models.

Which of the following actions should the engineers suggest?

- A. Implementing comprehensive security architecture
- B. Conducting guardrail testing and security validation
- C. Using a secure software development life cycle (SDLC)
- **D. Following a secure model development life cycle (MDLC)**

Answer: D

Explanation:

A secure MDLC is tailored to AI and ML systems, ensuring security is integrated throughout the model's design, training, validation, deployment, and monitoring phases. This directly addresses best practices for securing systems with AI models.

NEW QUESTION # 49

Which of the following would most likely be used to prove that an image is AI generated?

- A. Human validation
- B. Guardrails
- **C. Watermarking**
- D. Diffusion

Answer: C

Explanation:

Watermarking embeds hidden, verifiable markers into AI-generated images. These markers can later be detected to prove the image originated from an AI system, making it the most reliable method for verification.

NEW QUESTION # 50

A line of business wants to onboard an application that uses a custom AI model for employee assessments. The Chief Information Officer (CIO) agrees to allow the engagement to proceed but first wants a threat model. Which of the following is the most appropriate to use for an AI threat model?

- A. Organization for Economic Co-operation and Development (OECD)
- B. International Organization for Standardization (ISO)
- **C. Adversarial Threat Landscape for AI Systems (ATLAS)**
- D. Responsible AI

Answer: C

Explanation:

ATLAS is specifically designed for creating AI threat models. It catalogs adversarial techniques, tactics, and use cases that target AI systems, making it the most appropriate framework for assessing risks to a custom AI model in employee assessments.

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