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ISACA AAIA Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • AI GOVERNANCE AND RISK: It encompasses understanding different AI models and their life cycles, guiding AI strategy, defining roles and policies, managing AI-related risks, overseeing data privacy and governance, and ensuring adherence to ethical practices, standards, and regulations.
Topic 2	<ul style="list-style-type: none"> • AI Operations: It covers managing AI-specific data needs—including collection, quality, security, and classification—applying development lifecycle methodologies with privacy and security by design, change and incident management, testing AI solutions, identifying AI-related threats and vulnerabilities, and supervising AI deployments.
Topic 3	<ul style="list-style-type: none"> • Auditing Tools and Techniques: This section of the exam measures the skills of AI auditors and centers on auditing AI systems using appropriate tools and methods. It includes audit planning and design, sampling methodologies specific to AI, collecting audit evidence, using data analytics for quality assurance, and producing AI audit outputs and reports, including follow-up and quality control measures.

ISACA Advanced in AI Audit Sample Questions (Q22-Q27):

NEW QUESTION # 22

Which of the following techniques BEST supports machine learning (ML) training in sentiment analysis?

- A. Analysis of variance
- B. Image recognition
- C. Log-rank test
- **D. Logistic regression**

Answer: D

Explanation:

Sentiment analysis is a classification task where text is categorized (e.g., positive, negative, or neutral).

Logistic regression is a fundamental and highly effective statistical method for binary or multi-class classification, making it a standard choice for sentiment models. It estimates the probability of an input belonging to a specific class. While more complex architectures like Transformers (LLMs) are now common, logistic regression remains a benchmark for its simplicity and transparency in audit contexts. Image recognition and ANOVA are not relevant to the linguistic processing required for sentiment analysis, and the log-rank test is typically used in survival analysis rather than NLP classification.

NEW QUESTION # 23

Which of the following is the GREATEST risk when training data is not separated into distinct training and testing sets?

- **A. Overfitting**
- B. Model drift
- C. Underfitting
- D. Hallucinations

Answer: A

Explanation:

If training and testing sets are not separated, the model evaluates itself on the same data it was trained on, creating a false sense of accuracy. The result is overfitting (option A): the model learns the training data too well and fails to generalize to new data.

AAIA emphasizes that proper data splitting is foundational to machine learning evaluation. Overfitting undermines real-world performance, creates untrustworthy predictions, and hides bias or errors.

Model drift (B) occurs after deployment. Hallucinations (C) relate more to generative models. Underfitting (D) occurs when the model is too simple, not from lack of dataset separation.

Thus, overfitting is the direct and greatest risk when training and testing sets are not segregated.

References:

AAIA Domain 2: Testing Techniques and Model Evaluation Standards.

AAIA Domain 1: Fundamentals of ML model training.

NEW QUESTION # 24

Which of the following should be an IS auditor's GREATEST concern when using a predictive AI tool to analyze data abnormalities?

- A. The false positives or false negatives generated by the AI tool
- B. The cost of implementing and maintaining the AI tool for data audit purposes
- C. The speed at which the AI tool processes large data sets
- D. The ease of integrating the AI tool with existing data audit software

Answer: A

Explanation:

For predictive AI tool analyzing abnormalities, the GREATEST concern is the rate and impact of false positives and false negatives (A). False positives can lead to unnecessary investigation, while false negatives mean true issues (e.g., fraud, control failures) remain undetected. From an assurance perspective, false negatives are especially critical because they directly undermine audit objectives. AIA underscores that key performance metrics (e.g., precision, recall) and error trade-offs are essential in evaluating AI tools used in audit.

Integration ease (B), speed (C), and cost (D) are important practical considerations but are secondary to whether the tool accurately identifies or misses significant anomalies. Therefore, error behavior—false positives and false negatives—represents the primary risk to audit quality.

References:

ISACA, AIA Exam Content Outline- Domain 3: AI in Audit Processes; Domain 2: AI Operations (model performance metrics and risk).

ISACA analytics guidance on evaluating AI tools using precision, recall, and error analysis in audit contexts.

NEW QUESTION # 25

An IS auditor is evaluating a cybersecurity system that uses "agentic AI" for autonomous response. Which of the following is MOST important to consider?

- A. The agent requires network expansion to operate.
- B. The agent reduces the need for analyst intervention.
- C. The agent can take automated actions that may disrupt business operations.
- D. The agent's audit logs are lengthier and increase storage costs.

Answer: C

Explanation:

"Agentic AI" possesses the autonomy to perform actions within a system. In a cybersecurity context, an agent might autonomously block an IP or shut down a database if it detects a threat. The most significant risk is that a "False Positive" could trigger an automated response that causes a massive service disruption.

Auditors must validate the existence of "Guardrails," "Human-in-the-loop" approval for high-impact actions, and "Kill Switches" to halt the agent if it behaves erratically. While reduced intervention (Option B) is a benefit, it is also the primary driver of this operational risk.

NEW QUESTION # 26

An IS auditor reviewing the latest AI chatbot release identifies that, despite high accuracy rates, non-English users complain about the model's poor accuracy. Which of the following controls is BEST at ensuring detection of subgroup regressions?

- A. Weighted metric with higher accuracy targets
- B. Translate all outputs to English and evaluate in English for consistency
- C. Human review for non-English languages after go-live
- D. Comparative language evaluations with parity thresholds

Answer: D

Explanation:

A common pitfall in AI performance is "aggregate accuracy," which masks poor performance in specific demographics or subgroups. To detect these "subgroup regressions," auditors should look for "comparative evaluations" where the model is tested separately for different languages. "Parity thresholds" establish the maximum allowable difference in performance between the

majority group (English) and minority groups.

This ensures fairness and consistent user experience. Post-go-live human review is reactive, and translating everything to English ignores the nuances of the original language that likely caused the errors in the first place.

NEW QUESTION # 27

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