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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">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.
Topic 3	<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.

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ISACA Advanced in AI Audit Sample Questions (Q82-Q87):

NEW QUESTION # 82

When utilizing a machine learning (ML) model to predict whether a wind turbine electricity generator will fail, which model evaluation metric should be the PRIMARY focus?

- A. Accuracy
- B. Precision
- **C. Recall**
- D. Specificity

Answer: C

NEW QUESTION # 83

From a data appropriateness and bias perspective, which of the following should be of GREATEST concern when reviewing an AI model used in a credit scoring system?

- A. The model incorporates the applicant's loan history to assess spending habits.
- B. The model considers the applicant's income level as a key factor in the credit decision.
- **C. The model uses postal codes as a primary factor in determining creditworthiness.**
- D. The model utilizes historical credit data to predict future credit behavior.

Answer: C

Explanation:

Using postal codes as a primary factor in credit scoring raises concerns of geographic and socioeconomic bias. Postal codes can serve as proxies for race, ethnicity, or income level—potentially violating fair lending laws and ethical guidelines.

"Auditors should flag models that rely on proxies for protected attributes. Postal codes are high-risk features that may inadvertently lead to redlining or other discriminatory practices." A, B, and C are more justifiable under fair lending guidelines. Thus, D presents the highest concern.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Governance and Risk Management," Subsection: "Bias and Fairness in Financial AI Models"

NEW QUESTION # 84

Which of the following controls would MOST effectively mitigate worst-case service disruption scenarios affecting an AI-based application system?

- A. Performing periodic tabletop exercises
- **B. Including a range of AI disruption scenarios in the disaster recovery plan (DRP)**
- C. Implementing a kill chain process in the event of disruption
- D. Updating key risk indicators (KRIs) regularly

Answer: B

Explanation:

Including AI-specific disruption scenarios in the organization's Disaster Recovery Plan (DRP) ensures preparedness for worst-case events affecting AI systems. The AAIA™ Study Guide recommends tailoring business continuity and DR strategies to cover model unavailability, data corruption, and AI-specific dependencies.

"AI disruptions can arise from unique causes such as model corruption, adversarial attacks, or drift.

Integrating these into the DRP allows for effective, scenario-specific responses and minimizes downtime." Tabletop exercises (A) are valuable for preparedness but are less comprehensive than scenario planning. Kill chains (B) are security-specific. KRIs (C) aid in monitoring but don't ensure recovery. Therefore, D offers the most robust mitigation.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Governance and Risk Management," Subsection: "Business Continuity and Disaster Recovery Planning for AI"

NEW QUESTION # 85

An organization is evaluating change management practices for AI-based decision support models. Which of the following BEST demonstrates effective AI-focused change management?

- A. Engaging an independent expert to review the model's accuracy and precision on a quarterly basis
- **B. Documenting model updates and retraining sessions to ensure traceability**
- C. Deploying two separate copies of the model after each adjustment to compare results
- D. Assigning a single data science team member to adjust the model in order to establish accountability

Answer: B

Explanation:

Documenting model updates and retraining sessions to ensure traceability (option C) is the hallmark of mature, audit-ready change management in AI. The AAIA™ Study Guide states, "Traceability and documentation of all changes-including retraining events, parameter adjustments, and update rationales- enable effective audit trails, accountability, and regulatory compliance for AI systems." While reviews and comparisons are useful, only comprehensive documentation guarantees ongoing transparency and effective management.

Reference:ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "Change Management and Traceability in AI"

NEW QUESTION # 86

In order to streamline operations, a bank has deployed an AI application to automatically detect and prevent further fraud on accounts. However, customers have voiced concerns that their usual transactions are being rejected. Which of the following is the MOST likely cause of the false positives?

- **A. The hyperparameters are not optimized.**
- B. Compute scale training was not performed.
- C. Data versioning controls were not developed.
- D. Consent is not properly managed.

Answer: A

NEW QUESTION # 87

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