

# Unique Features of Pass4guide's AAIA Exam Dumps (Desktop and Web-Based)

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1. Which of the following is MOST important to consider when auditing an organization's AI procedures?  
 A. Frequency of AI system updates to enhance security  
 B. Employee training on recognized AI best practices  
 C. Backup and recovery in the event of an AI data breach  
 D. AI data validation and filtration to prevent data poisoning

Answer: D

2. When auditing the transparency of an AI system, which of the following would be the MOST effective way to understand the model's decision-making process?

- A. Evaluating the diversity of the training data set
- B. Analyzing the complexity of the algorithms used
- C. Assessing the computational cost of the model
- D. Reviewing the explainability of AI outputs

Answer: D

3. The PRIMARY purpose of maintaining an audit trail in AI systems is to:

- A. Facilitate transparency and traceability of decisions.
- B. Analyze model accuracy and fairness.
- C. Measure computational efficiency.
- D. Ensure compliance with regulatory standards for AI.

Answer: A

4. A digital bank utilizes an AI system to generate credit scores.

Which of the following would BEST mitigate the risk of sudden and unexplained changes in a borrower's credit score?

- A. Ensuring the system is periodically reviewed and calibrated by human experts to maintain stability in predictions
- B. Using only data from the last six months to one year to avoid outdated information affecting the credit score
- C. Allowing the AI to operate fully autonomously to prevent processing delays
- D. Obtaining and validating the credit scores from third-party agencies to cross-check AI-generated results

Answer: A

5. Which of the following AI system characteristics would BEST help an IS auditor evaluate the system's algorithm?

- A. The AI system algorithm uses training data to inform decision output.
- B. The AI system provides multiple options for model training.
- C. The AI system provides transparent justification of decisions.
- D. The AI system uses archived transaction data to provide decisions.

Answer: C

6. An IS auditor is auditing an organization's data governance framework. The primary objective is to provide assurance that data management practices are standardized to support a trustworthy AI system.

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## ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>AI GOVERNANCE AND RISK:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>AI Operations:</b> 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.</li> </ul>

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### ISACA Advanced in AI Audit Sample Questions (Q124-Q129):

#### NEW QUESTION # 124

An IS auditor is testing an AI-based fraud detection system that flags suspicious transactions and finds that the system has a high false positive rate. Which of the following testing methods should be prioritized to BEST optimize the detection rate?

- A. Regression testing
- **B. Cross-validation testing**
- C. Benford's Law analysis
- D. Substantive testing

**Answer: B**

Explanation:

Cross-validation testing is a statistical method used to assess how well a model generalizes to an independent data set. The AAIA™ Study Guide recommends this method as a best practice to fine-tune model accuracy and reduce both false positives and false negatives. It involves splitting the dataset into training and testing subsets multiple times to ensure model robustness.

"Cross-validation allows auditors and developers to identify overfitting and adjust model parameters to achieve better generalization and predictive accuracy, especially in fraud detection contexts." Regression testing (A) focuses on changes over time; substantive testing (C) is audit-specific but not model- focused. Benford's Law (D) applies to numerical distributions but is not designed for optimizing ML models.

Hence, B is the best approach.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Operations and Performance," Subsection: "Testing and Model Validation Methods"

#### NEW QUESTION # 125

Which of the following should be an IS auditor's GREATEST concern if class imbalance is identified in training data for an AI model?

- **A. Model bias**
- B. Data quality
- C. Model overfitting
- D. Data drift

**Answer: A**

Explanation:

Class imbalance occurs when one or more classes are underrepresented in the training data. The GREATEST concern is model bias (C): the model may learn to favor the majority class, leading to poor performance and unfair treatment for minority classes. In high-stakes applications (e.g., fraud detection, credit scoring, medical diagnosis), this can translate into systematic discrimination or incorrect decisions. AAIA highlights class imbalance as a common source of bias and stresses mitigation techniques (resampling, reweighting, threshold adjustments).

Data drift (A) refers to changes in data distributions over time-related but distinct. Data quality (B) is broader and may or may not be affected by imbalance. Overfitting (D) is a risk, but class imbalance more directly raises fairness and representativeness concerns rather than overfitting alone. Thus, bias arising from class imbalance is the auditor's primary concern.

References:

ISACA, AAIA Exam Content Outline- Domain 2: Data Management Specific to AI (data balancing, bias risk).

ISACA AI ethics and model risk guidance discussing class imbalance and fairness.

### NEW QUESTION # 126

An organization shares an AI model with external partners. One partner reports that sensitive data has been inadvertently exposed through the model's outputs. Which of the following is the IS auditor's BEST recommendation?

- A. Disable the shared model and notify partners of the potential breach.
- B. Limit the model's outputs to anonymized results while investigating further.
- C. Retrain the model immediately and implement privacy-preserving techniques.
- D. Audit the data pipelines of all partners to identify the source of the leak.

Answer: A

### NEW QUESTION # 127

An AI-based marketing analytics tool is trained on data that is five years old. Which of the following is MOST likely to occur?

- A. Model poisoning
- B. Model inversion
- C. Model drift
- D. Model extraction

Answer: C

Explanation:

Model drift (also called concept drift) occurs when the data used for training no longer reflects the current environment. In marketing, consumer behaviors, trends, and demographics change rapidly; therefore, a model trained on five-year-old data will suffer from significant drift. The AAIA™ manual explains that this results in the model making predictions based on obsolete patterns, leading to poor accuracy and potentially biased or irrelevant marketing recommendations. Options A, B, and C refer to security attacks, whereas "Model drift" is the natural operational degradation that occurs when AI systems are not regularly updated with fresh, representative data.

### NEW QUESTION # 128

Which of the following is the MOST effective way an IS auditor could use generative AI to plan an audit of a new database storing transactional data?

- A. Summarizing meeting transcripts from interviews with database administrators (DBAs)
- B. Identifying technology-specific risk and considerations
- C. Developing architecture diagrams
- D. Identifying separation of duties conflicts for database data changes

Answer: B

Explanation:

Generative AI excels at synthesizing large datasets and technical documentation into understandable insights.

The AAIA™ Study Guide recommends leveraging generative AI to identify domain-specific risks and control considerations by analyzing complex environments and correlating them with industry risk patterns.

"AI can assist auditors during planning by generating tailored risk profiles for technologies under review, helping prioritize audit focus

and scoping." While summarizing interviews (D) and creating diagrams (B) are helpful, only C directly informs audit planning with actionable intelligence. A (separation of duties) is a later-stage control assessment.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI in Audit Processes," Subsection: "Generative AI Use in Planning and Scoping"

## NEW QUESTION # 129

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