

AAIA PDF Testsoftware - AAIA Zertifikatsfragen



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ISACA AAIA Prüfungsplan:

Thema	Einzelheiten
Thema 1	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.
Thema 2	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.
Thema 3	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.

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ISACA Advanced in AI Audit AAIA Prüfungsfragen mit Lösungen (Q21-Q26):

21. Frage

Which of the following is the MOST important purpose of conducting a risk assessment for AI models within an organization?

- A. Determining whether AI model outputs align with established use cases
- B. Categorizing data used by the AI model
- C. Monitoring AI model performance on an ongoing basis
- **D. Defining mitigation strategies for AI deployment**

Antwort: D

Begründung:

Risk assessments identify potential threats and vulnerabilities in AI systems and support the development of mitigation strategies. According to the AAIA™ Study Guide, the main objective is not just identification of risks but to proactively design controls that minimize impact and ensure ethical and regulatory compliance.

"The output of an AI risk assessment should lead to actionable mitigation strategies, supporting the secure and responsible deployment of AI solutions across business processes." Options A, C, and D are components of governance and monitoring, but B addresses the core intent of risk assessments.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Governance and Risk Management," Subsection: "Risk Assessment and Mitigation for AI Systems"

22. Frage

An IS auditor is auditing an AI system that predicts inventory needs. The system recently failed to predict a stock outage for a key product. Which of the following audit tests would BEST validate the system's accuracy?

- **A. Historical testing with past sales data**
- B. Sensitivity analysis on input variables
- C. Unit testing of the forecasting algorithm
- D. Load testing during peak sales periods

Antwort: A

Begründung:

The best way to validate the accuracy of a predictive AI system is to use historical testing with past sales data (option D). According to the AAIA™ Study Guide, "historical (or back-testing) is essential for evaluating how well a model would have performed using actual data from previous periods, directly reflecting its predictive validity." This method reveals any gaps or biases in the model by comparing predictions to known outcomes.

Unit testing, load testing, and sensitivity analysis are useful for technical verification and robustness but do not provide direct evidence of prediction accuracy in real-world scenarios.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Model Validation Techniques"

23. Frage

An organization deploys a complex AI model to support credit risk assessments. Stakeholders find the model's output difficult to interpret. Which of the following BEST improves interpretability?

- **A. Developing documentation and visual tools explaining how the model generates outputs**
- B. Reducing the model's complexity
- C. Training stakeholders to interpret AI outputs
- D. Implementing a rule-based system to validate the AI model's decisions

Antwort: A

Begründung:

AAIA emphasizes that transparency and interpretability require clear explanations of how the model functions, what features drive predictions, and how decisions are derived.

Creating documentation and visual interpretability tools (option C) provides:

- * Feature importance breakdowns
- * Decision pathway visualizations
- * Examples of prediction reasoning
- * Plain-language explanations for nontechnical stakeholders
- * Evidence that can be validated during audits

While training stakeholders (A) is helpful, it does not make the model itself clearer.

A rule-based system (B) supports validation, not interpretability.

Simplifying the model (D) may affect accuracy and is not necessary if documentation and interpretability tooling solve the issue.

Therefore, the best approach is to improve interpretability through clear documentation and visualization.

References:

AAIA Domain 5: Explainability and Transparency Controls

AAIA Domain 3: Auditability and Documentation Requirements

24. Frage

While evaluating a complex machine learning (ML) model used for regulatory compliance in a financial institution, which of the following should the IS auditor do to BEST ensure transparency?

- A. Create dashboards to show outputs.
- B. Document sources and data processes.
- **C. Use tools that explain model decisions.**
- D. Provide periodic model audit reports.

Antwort: C

25. Frage

An AI model predicts vehicle component failures using data collected at different frequencies and formats based on car type. Which of the following is the BEST course of action when evaluating data input requirements for the model?

- A. Train separate models for each car type to simplify preprocessing.
- **B. Standardize sensor data frequency and formats before model training.**
- C. Prioritize the use of internally generated maintenance logs.
- D. Merge sensor data into a single data set regardless of format and frequency.

Antwort: B

Begründung:

For reliable model performance and meaningful comparisons across inputs, data consistency is essential.

Standardizing sensor data frequency and formats ensures that the model receives aligned time steps and coherent feature structures, reducing the risk of spurious patterns, missing signals, and biased predictions.

This is aligned with AAIA's focus on data quality, data balancing, and data preparation in AI Operations.

Option B ignores frequency and formatting differences, likely introducing noise and misalignment. Option C may sometimes be valid, but it increases complexity, maintenance overhead, and may still require consistent preprocessing pipelines. Option D addresses only one data source and does not solve the problem of heterogeneous sensor data. The most robust operational approach is to define clear data input requirements and standardize the sensor data (option A) before training.

References:

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

ISACA AI operations guidance on data pipelines and preprocessing for AI models.

26. Frage

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