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ISACA Advanced in AI Audit Sample Questions (Q135-Q140):

NEW QUESTION # 135

During audit planning, an IS auditor reviews the correlation matrix. Which variable pair from an electrical generation facility has the MOST significant correlation?

- A. Rotational speed and tool wear is 0.56
- B. Electricity demand and machine torque is 0.0
- C. Temperature and generator effectiveness is -0.85
- D. Daily precipitation and generator efficiency is 0.09

Answer: C

Explanation:

A correlation of -0.85 (option C) represents a strong negative correlation, indicating a meaningful inverse relationship. In AI model development, high-magnitude correlations (positive or negative) strongly influence feature selection and model behavior.

AAIA emphasizes that auditors must understand correlation strength to evaluate:

- * Feature relevance
- * Model weight justification
- * Risk of multicollinearity
- * Data quality and representativeness

The other correlations are weak or negligible.

Thus, the pair with -0.85 is the most significant.

References:

AAIA Domain 1: AI Data Relationships

AAIA Domain 2: Data Understanding and Statistical Foundations

NEW QUESTION # 136

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

Answer: C

Explanation:

False positives in fraud detection AI systems often stem from poorly optimized hyperparameters.

Hyperparameters control aspects of the model's learning process such as the learning rate, decision thresholds, and complexity penalties. When these parameters are not tuned correctly, the model can become overly sensitive and flag normal behavior as suspicious, leading to customer complaints.

"Hyperparameter tuning is essential to balance sensitivity and specificity in AI models. Improper tuning can result in a high rate of false positives or negatives, particularly in systems like fraud detection that require nuanced pattern recognition." Options A and B relate to data governance but do not directly cause false positives in predictions. Option C (compute scale training) may affect model efficiency, not accuracy. Thus, D is the most appropriate answer.

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

NEW QUESTION # 137

An organization plans to share customer data collected through an AI system with third-party vendors. Which of the following BEST demonstrates compliance with data privacy principles?

- **A. Obtaining expressed consent from customers before sharing their data**
- B. Communicating to customers about AI data sharing practices
- C. Ensuring vendors implement adequate technical safeguards for data protection
- D. Including a statement about AI data sharing practices in the company's privacy policy

Answer: A

Explanation:

The strongest demonstration of compliance with privacy principles-especially those emphasized in AAIA, such as lawfulness, transparency, and consent-is obtaining expressed customer consent(B) before sharing data with third parties. Consent ensures that data processing aligns with legal and ethical requirements, reducing risks related to regulatory violations, unauthorized processing, and loss of customer trust.

Option A and C relate only to disclosure and transparency, which are necessary but insufficient. Option D concerns vendor security controls, which are important but do not address the legal basis for sharing data.

Explicit, informed consent is the highest standard of compliance for third-party data sharing.

References:

ISACA, AAIA Exam Content Outline- Domain 5: Legal Requirements and Data Privacy in AI.

ISACA data governance guidance on lawful basis and consent.

NEW QUESTION # 138

An organization is using a large language model (LLM) to assist in evaluating loan applications, but the training data used is known to be incomplete. Which of the following is the GREATEST associated risk?

- A. Increased manual processing of applications
- B. Reduced customer satisfaction
- C. Delays in loan approval
- **D. Unfair loan decisions**

Answer: D

Explanation:

Incomplete training data often leads to underrepresentation of certain applicant types, products, or scenarios.

In credit and lending, this typically translates into systematic bias: some groups are evaluated on richer historical patterns, while others are evaluated on sparse or unrepresentative information. The greatest associated risk is therefore unfair loan decisions (A), which can manifest as unjustified rejections, inappropriate pricing, or inconsistent risk assessments.

While delays (B), reduced satisfaction (C), or increased manual work (D) may occur, they are secondary operational issues. AAIA highlights that for financial services, the central risks include fairness, discrimination, regulatory compliance, and reputational impact. Incomplete data directly undermines fairness and can violate lending regulations and internal risk appetite.

References:

ISACA, AAIA Exam Content Outline- Domain 1: AI Governance and Risk (risk categories, including fairness and discriminatory outcomes).

ISACA AI ethics content on data completeness and representativeness in decisioning systems.

NEW QUESTION # 139

Which of the following techniques BEST assesses an AI model's ability to generalize to new data?

- A. Metamorphic testing
- B. Model component unit testing
- **C. K-fold cross validation**
- D. Failure mode effects analysis

Answer: C

Explanation:

K-fold cross validation partitions the dataset into equally sized folds, iteratively using one fold for testing and the remaining folds for training. By rotating through all folds, the model is evaluated on multiple, non-overlapping subsets of data, providing a robust estimate of generalization performance. This process reduces the risk of overfitting to a single train-test split and is explicitly recognized in AI testing techniques and data analytics practices relevant to AAIA.

Option A (failure mode effects analysis) is useful for understanding failure impacts but not primarily for generalization. Option B (unit testing) focuses on code components, not model generalization. Option D (metamorphic testing) is valuable for validating behavior under transformations, but the standard, widely accepted approach to assessing generalization remains cross validation, making option C the best answer.

References:

ISACA, AAIA Exam Content Outline- Domain 2: Testing Techniques for AI Solutions (conventional and AI-specific testing).

ISACA AI and data analytics training content that discusses cross validation as a generalization assessment method.

NEW QUESTION # 140

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