

Free Questions for AIGP

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Question 1

Question Type: MultipleChoice

CASE STUDY

Please use the following answer the next question:

A local police department in the United States procured an AI system to monitor and analyze social media feeds, online marketplaces and other sources of public information to detect evidence of illegal activities (e.g., sale of drugs or stolen goods). The AI system works by surveilling the public sites in order to identify individuals that are likely to have committed a crime. It cross-references the individuals against data maintained by law enforcement and then assigns a percentage score of the likelihood of criminal activity based on certain factors like previous criminal history, location, time, race and gender.

The police department retained a third-party consultant assist in the procurement process, specifically to evaluate two finalists. Each of the vendors provided information about their system's accuracy rates, the diversity of their training data and how their system works. The consultant determined that the first vendor's system has a higher accuracy rate and based on this information, recommended this vendor to the police department.

The police department chose the first vendor and implemented its AI system. As part of the implementation, the department and consultant created a usage policy for the system, which includes training police officers on how the system works and how to incorporate it into their investigation process.

The police department has now been using the AI system for a year. An internal review has found that every time the system scored a likelihood of criminal activity at or above 90%, the police investigation subsequently confirmed that the individual had, in fact, committed a crime. Based on these results, the police department wants to forego investigations for cases where the AI system gives a score of at

least 90% and proceed directly with an arrest.

During the procurement process, what is the most likely reason that the third-party consultant asked each vendor for information about the diversity of their datasets?

Options:

- A- To comply with applicable law.
- B- To assist the fairness of the AI system.
- C- To evaluate the reliability of the AI system.
- D- To determine the explainability of the AI system.

Answer:

B

Explanation:

The third-party consultant asked each vendor for information about the diversity of their datasets to assist in ensuring the fairness of the AI system. Diverse datasets help prevent biases and ensure that the AI system performs equitably across different demographic groups. This is crucial for a law enforcement application, where fairness and avoiding discriminatory practices are of paramount importance. Ensuring diversity in training data helps in building a more just and unbiased AI system. Reference: AIGP Body of Knowledge on Ethical AI and Fairness.

Question 2

Question Type: MultipleChoice

Which of the following steps occurs in the design phase of the AI life cycle?

Options:

- A- Data augmentation.
- B- Model explainability.
- C- Risk impact estimation.
- D- Performance evaluation.

Answer:

C

Explanation:

Risk impact estimation occurs in the design phase of the AI life cycle. This step involves evaluating potential risks associated with the AI system and estimating their impacts to ensure that appropriate mitigation strategies are in place. It helps in identifying and addressing potential issues early in the design process, ensuring the development of a robust and reliable AI system. Reference: AIGP Body of Knowledge on AI Design and Risk Management.

Question 3

Question Type: MultipleChoice

During the planning and design phases of the AI development life cycle, bias can be reduced by all of the following EXCEPT?

Options:

- A- Stakeholder involvement.
- B- Feature selection.
- C- Human oversight.
- D- Data collection.

Answer:

B

Explanation:

Bias in AI can be reduced during the planning and design phases through stakeholder involvement, human oversight, and careful data collection. While feature selection is critical in the development phase, it does not specifically occur during planning and design. Ensuring diverse stakeholder involvement and human oversight helps identify and mitigate potential biases early, and data collection ensures a representative dataset. Reference: AIGP Body of Knowledge on AI Development Lifecycle and Bias Mitigation.

Question 4

Question Type: MultipleChoice

Which of the following use cases would be best served by a non-AI solution?

Options:

- A- A non-profit wants to develop a social media presence.
- OB. An e-commerce provider wants to make personalized recommendations.

C- A business analyst wants to forecast future cost overruns and underruns.

D- A customer service agency wants automate answers to common questions.

Answer:

A

Explanation:

Developing a social media presence for a non-profit is best served by non-AI solutions. This task primarily involves content creation, community engagement, and strategic planning, which are effectively managed by human expertise and traditional marketing tools. AI is more suitable for tasks requiring automation, large-scale data analysis, and personalized recommendations, such as e-commerce personalization, forecasting cost overruns, or automating customer service responses. Reference: AIGP Body of Knowledge on AI Use Cases and Applications.

Question 5

Question Type: MultipleChoice

All of the following are elements of establishing a global AI governance infrastructure EXCEPT?

Options:

- A- Providing training to foster a culture that promotes ethical behavior.
- B- Creating policies and procedures to manage third-party risk.
- C- Understanding differences in norms across countries.
- D- Publicly disclosing ethical principles.

Answer:

D

Explanation:

Establishing a global AI governance infrastructure involves several key elements, including providing training to foster a culture that promotes ethical behavior, creating policies and procedures to manage third-party risk, and understanding differences in norms across countries. While publicly disclosing ethical principles can enhance transparency and trust, it is not a core element necessary for the establishment of a governance infrastructure. The focus is more on internal processes and structures rather than public disclosure. Reference: AIGP Body of Knowledge on AI Governance and Infrastructure.

Question 6

Question Type: MultipleChoice

Which of the following would be the least likely step for an organization to take when designing an integrated compliance strategy for responsible AI?

Options:

- A-** Conducting an assessment of existing compliance programs to determine overlaps and integration points.
- B-** Employing a new software platform to modernize existing compliance processes across the organization.
- C-** Consulting experts to consider the ethical principles underpinning the use of AI within the organization.
- D-** Launching a survey to understand the concerns and interests of potentially impacted stakeholders.

Answer:

B

Explanation:

When designing an integrated compliance strategy for responsible AI, the least likely step would be employing a new software platform to modernize existing compliance processes. While modernizing compliance processes is beneficial, it is not as directly related to the strategic integration of ethical principles and stakeholder concerns. More critical steps include conducting assessments of existing compliance programs to identify overlaps and integration points, consulting experts on ethical principles, and launching surveys to understand stakeholder concerns. These steps ensure that the compliance strategy is comprehensive and aligned with responsible AI principles. Reference: AIGP Body of Knowledge on AI Governance and Compliance Integration.

Question 7

Question Type: MultipleChoice

You are a privacy program manager at a large e-commerce company that uses an AI tool to deliver personalized product recommendations based on visitors' personal information that has been collected from the company website, the chatbot and public data the company has scraped from social media.

A user submits a data access request under an applicable U.S. state privacy law, specifically seeking a copy of their personal data, including information used to create their profile for product recommendations.

What is the most challenging aspect of managing this request?

Options:

- A-** Some of the visitor's data is synthetic data that the company does not have to provide to the data subject.
- B-** The data subject's data is structured data that can be searched, compiled and reviewed only by an automated tool.
- C-** The data subject is not entitled to receive a copy of their data because some of it was scraped from public sources.
- D-** Some of the data subject's data is unstructured data and you cannot untangle it from the other data, including information about other individuals.

Answer:

D

Explanation:

The most challenging aspect of managing a data access request in this scenario is dealing with unstructured data that cannot be easily disentangled from other data, including information about other individuals. Unstructured data, such as free-text inputs or social media posts, often lacks a clear structure and may be intermingled with data from multiple individuals, making it difficult to isolate the specific data related to the requester. This complexity poses significant challenges in complying with data access requests under privacy laws. Reference: AIGP Body of Knowledge on Data Subject Rights and Data Management.

Question 8

Question Type: MultipleChoice

Which type of existing assessment could best be leveraged to create an AI impact assessment?

Options:

- A- A safety impact assessment.
- B- A privacy impact assessment.
- C- A security impact assessment.
- D- An environmental impact assessment.

Answer:

B

Explanation:

A privacy impact assessment (PIA) can be effectively leveraged to create an AI impact assessment. A PIA evaluates the potential privacy risks associated with the use of personal data and helps in implementing measures to mitigate those risks. Since AI systems often involve processing large amounts of personal data, the principles and methodologies of a PIA are highly applicable and can be extended to assess broader impacts, including ethical, social, and legal implications of AI. Reference: AIGP Body of Knowledge on Impact Assessments.

Question 9

Question Type: MultipleChoice

After completing model testing and validation, which of the following is the most important step that an organization takes prior to deploying the model into production?

Options:

- A- Perform a readiness assessment.
- B- Define a model-validation methodology.
- C- Document maintenance teams and processes.
- D- Identify known edge cases to monitor post-deployment.

Answer:

A

Explanation:

After completing model testing and validation, the most important step prior to deploying the model into production is to perform a readiness assessment. This assessment ensures that the model is fully prepared for deployment, addressing any potential issues related to infrastructure, performance, security, and compliance. It verifies that the model meets all necessary criteria for a successful launch. Other steps, such as defining a model-validation methodology, documenting maintenance teams and processes, and identifying known edge cases, are also important but come secondary to confirming overall readiness. Reference: AIGP Body of Knowledge on Deployment Readiness.

Question 10

Question Type: MultipleChoice

When monitoring the functional performance of a model that has been deployed into production, all of the following are concerns EXCEPT?

Options:

- A- Feature drift.
- B- System cost.
- C- Model drift.
- D- Data loss.

Answer:

B

Explanation:

When monitoring the functional performance of a model deployed into production, concerns typically include feature drift, model drift, and data loss. Feature drift refers to changes in the input features that can affect the model's predictions. Model drift is when the model's performance degrades over time due to changes in the data or environment. Data loss can impact the accuracy and reliability of the model. However, system cost, while important for budgeting and financial planning, is not a direct concern when monitoring the functional performance of a deployed model. Reference: AIGP Body of Knowledge on Model Monitoring and Maintenance.

Question 11

Question Type: MultipleChoice

To maintain fairness in a deployed system, it is most important to?

Options:

- A- Protect against loss of personal data in the model.
- B- Monitor for data drift that may affect performance and accuracy.
- C- Detect anomalies outside established metrics that require new training data.
- D- Optimize computational resources and data to ensure efficiency and scalability.

Answer:

B

Explanation:

To maintain fairness in a deployed system, it is crucial to monitor for data drift that may affect performance and accuracy. Data drift occurs when the statistical properties of the input data change over time, which can lead to a decline in model performance. Continuous monitoring and updating of the model with new data ensure that it remains fair and accurate, adapting to any changes in the data distribution. Reference: AIGP Body of Knowledge on Post-Deployment Monitoring and Model Maintenance.

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