



IAPP

Exam Questions AIGP

Artificial Intelligence Governance Professional

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NEW QUESTION 1

- (Topic 1)

CASE STUDY

Please use the following answer the next question:

ABC Corp, is a leading insurance provider offering a range of coverage options to individuals. ABC has decided to utilize artificial intelligence to streamline and improve its customer acquisition and underwriting process, including the accuracy and efficiency of pricing policies.

ABC has engaged a cloud provider to utilize and fine-tune its pre-trained, general purpose large language model (“LLM”). In particular, ABC intends to use its historical customer data—including applications, policies, and claims—and proprietary pricing and risk strategies to provide an initial qualification assessment of potential customers, which would then be routed a human underwriter for final review.

ABC and the cloud provider have completed training and testing the LLM, performed a readiness assessment, and made the decision to deploy the LLM into production. ABC has designated an internal compliance team to monitor the model during the first month, specifically to evaluate the accuracy, fairness, and reliability of its output. After the first month in production, ABC realizes that the LLM declines a higher percentage of women's loan applications due primarily to women historically receiving lower salaries than men.

What is the best strategy to mitigate the bias uncovered in the loan applications?

- A. Retrain the model with data that reflects demographic parity.
- B. Procure a third-party statistical bias assessment tool.
- C. Document all instances of bias in the data set.
- D. Delete all gender-based data in the data set.

Answer: A

Explanation:

Retraining the model with data that reflects demographic parity is the best strategy to mitigate the bias uncovered in the loan applications. This approach addresses the root cause of the bias by ensuring that the training data is representative and balanced, leading to more equitable decision-making by the AI model.

Reference: The AIGP Body of Knowledge stresses the importance of using high-quality, unbiased training data to develop fair and reliable AI systems. Retraining the model with balanced data helps correct biases that arise from historical inequalities, ensuring that the AI system makes decisions based on equitable criteria.

NEW QUESTION 2

- (Topic 1)

According to the Singapore Model AI Governance Framework, all of the following are recommended measures to promote the responsible use of AI EXCEPT?

- A. Determining the level of human involvement in algorithmic decision-making.
- B. Adapting the existing governance structure algorithmic decision-making.
- C. Employing human-over-the-loop protocols for high-risk systems.
- D. Establishing communications and collaboration among stakeholders.

Answer: C

Explanation:

The Singapore Model AI Governance Framework recommends several measures to promote the responsible use of AI, such as determining the level of human involvement in decision-making, adapting governance structures, and establishing communications and collaboration among stakeholders. However, employing human-over-the-loop protocols is not specifically mentioned in this framework. The focus is more on integrating human oversight appropriately within the decision-making process rather than exclusively employing such protocols. Reference: AIGP Body of Knowledge, section on AI governance frameworks.

NEW QUESTION 3

- (Topic 1)

The OECD's Ethical AI Governance Framework is a self-regulation model that proposes to prevent societal harms by?

- A. Establishing explain ability criteria to responsibly source and use data to train AI systems.
- B. Defining requirements specific to each industry sector and high-risk AI domain.
- C. Focusing on AI technical design and post-deployment monitoring.
- D. Balancing AI innovation with ethical considerations.

Answer: D

Explanation:

The OECD's Ethical AI Governance Framework aims to ensure that AI development and deployment are carried out ethically while fostering innovation. The framework includes principles like transparency, accountability, and human rights protections to prevent societal harm. It does not focus solely on technical design or post-deployment monitoring (C), nor does it establish industry-specific requirements (B). While explainability is important, the primary goal is to balance innovation with ethical considerations (D).

NEW QUESTION 4

- (Topic 1)

Which of the following is an example of a high-risk application under the EU AI Act?

- A. A resume scanning tool that ranks applicants.
- B. An AI-enabled inventory management tool.
- C. A government-run social scoring tool.
- D. A customer service chatbot tool.

Answer: C

Explanation:

The EU AI Act categorizes certain applications of AI as high-risk due to their potential impact on fundamental rights and safety. High-risk applications include those used in critical areas such as employment, education, and essential public services. A government-run social scoring tool, which assesses individuals based on

their social behavior or perceived trustworthiness, falls under this category because of its profound implications for privacy, fairness, and individual rights. This contrasts with other AI applications like resume scanning tools or customer service chatbots, which are generally not classified as high-risk under the EU AI Act.

NEW QUESTION 5

- (Topic 1)

All of the following are common optimization techniques in deep learning to determine weights that represent the strength of the connection between artificial neurons EXCEPT?

- A. Gradient descent, which initially sets weights arbitrary values, and then at each step changes them.
- B. Momentum, which improves the convergence speed and stability of neural network training.
- C. Autoregression, which analyzes and makes predictions about time-series data.
- D. Backpropagation, which starts from the last layer working backwards.

Answer: C

Explanation:

Autoregression is not a common optimization technique in deep learning to determine weights for artificial neurons. Common techniques include gradient descent, momentum, and backpropagation. Autoregression is more commonly associated with time-series analysis and forecasting rather than neural network optimization. Reference: AIGP BODY OF KNOWLEDGE, which discusses common optimization techniques used in deep learning.

NEW QUESTION 6

- (Topic 1)

A US company has developed an AI system, CrimeBuster 9619, that collects information about incarcerated individuals to help parole boards predict whether someone is likely to commit another crime if released from prison.

When considering expanding to the EU market, this type of technology would?

- A. Require the company to register the tool with the EU database.
- B. Be subject approval by the relevant EU authority.
- C. Require a detailed conformity assessment.
- D. Be banned under the EU AI Act.

Answer: C

Explanation:

Under the EU AI Act, high-risk AI systems like CrimeBuster 9619 would require a detailed conformity assessment before being deployed in the EU market. This assessment ensures that the AI system complies with all relevant regulations and standards, addressing potential risks related to privacy, security, and discrimination. The company would not need to register the tool with the EU database (A), seek approval from an EU authority (B), or face a ban (D) as long as it meets the necessary conformity requirements.

NEW QUESTION 7

- (Topic 1)

What type of organizational risk is associated with AI's resource-intensive computing demands?

- A. People risk.
- B. Security risk.
- C. Third-party risk.
- D. Environmental risk.

Answer: D

Explanation:

AI's resource-intensive computing demands pose significant environmental risks. High-performance computing required for training and deploying AI models often leads to substantial energy consumption, which can result in increased carbon emissions and other environmental impacts. This is particularly relevant given the growing concern over climate change and the environmental footprint of technology. Organizations need to consider these environmental risks when developing AI systems, potentially exploring more energy-efficient methods and renewable energy sources to mitigate the environmental impact.

NEW QUESTION 8

- (Topic 1)

CASE STUDY

Please use the following answer the next question:

XYZ Corp., a premier payroll services company that employs thousands of people globally, is embarking on a new hiring campaign and wants to implement policies and procedures to identify and retain the best talent. The new talent will help the company's product team expand its payroll offerings to companies in the healthcare and transportation sectors, including in Asia.

It has become time consuming and expensive for HR to review all resumes, and they are concerned that human reviewers might be susceptible to bias.

Address these concerns, the company is considering using a third-party AI tool to screen resumes and assist with hiring. They have been talking to several vendors about possibly obtaining a third-party AI-enabled hiring solution, as long as it would achieve its goals and comply with all applicable laws.

The organization has a large procurement team that is responsible for the contracting of technology solutions. One of the procurement team's goals is to reduce costs, and it often prefers lower-cost solutions. Others within the company are responsible for integrating and deploying technology solutions into the organization's operations in a responsible, cost-effective manner.

The organization is aware of the risks presented by AI hiring tools and wants to mitigate

them. It also questions how best to organize and train its existing personnel to use the AI hiring tool responsibly. Their concerns are heightened by the fact that relevant laws vary across jurisdictions and continue to change.

If XYZ does not deploy and use the AI hiring tool responsibly in the United States, its liability would likely increase under all of the following laws EXCEPT?

- A. Anti-discrimination laws.
- B. Product liability laws.
- C. Accessibility laws.
- D. Privacy laws.

Answer: B

Explanation:

In the United States, the use of AI hiring tools must comply with anti-discrimination laws, accessibility laws, and privacy laws to avoid increasing liability. Anti-discrimination laws (A) ensure that hiring practices do not unlawfully discriminate against protected classes. Accessibility laws (C) require that hiring tools are accessible to all applicants, including those with disabilities. Privacy laws (D) govern the handling of personal data during the hiring process. Product liability laws (B), however, typically apply to the safety and reliability of physical products and would not generally increase liability specifically related to the responsible use of AI hiring tools in the employment context.

NEW QUESTION 9

- (Topic 1)

CASE STUDY

Please use the following answer the next question:

Good Values Corporation (GVC) is a U.S. educational services provider that employs teachers to create and deliver enrichment courses for high school students. GVC has learned that many of its teacher employees are using generative AI to create the enrichment courses, and that many of the students are using generative AI to complete their assignments.

In particular, GVC has learned that the teachers they employ used open source large language models (“LLM”) to develop an online tool that customizes study questions for individual students. GVC has also discovered that an art teacher has expressly incorporated the use of generative AI into the curriculum to enable students to use prompts to create digital art.

GVC has started to investigate these practices and develop a process to monitor any use of generative AI, including by teachers and students, going forward.

Which of the following risks should be of the highest concern to individual teachers using generative AI to ensure students learn the course material?

- A. Financial cost.
- B. Model accuracy.
- C. Technical complexity.
- D. Copyright infringement.

Answer: B

Explanation:

The highest concern for individual teachers using generative AI to ensure students learn the course material is model accuracy. Ensuring that the AI-generated content is accurate and relevant to the curriculum is crucial for effective learning. If the AI model produces inaccurate or irrelevant content, it can mislead students and hinder their understanding of the subject matter.

Reference: According to the AIGP Body of Knowledge, one of the core risks posed by AI systems is the accuracy of the data and models used. Ensuring the accuracy of AI-generated content is essential for maintaining the integrity of the educational material and achieving the desired learning outcomes.

NEW QUESTION 10

- (Topic 1)

Under the Canadian Artificial Intelligence and Data Act, when must the Minister of Innovation, Science and Industry be notified about a high-impact AI system?

- A. When use of the system causes or is likely to cause material harm.
- B. When the algorithmic impact assessment has been completed.
- C. Upon release of a new version of the system.
- D. Upon initial deployment of the system.

Answer: D

Explanation:

According to the Canadian Artificial Intelligence and Data Act, high-impact AI systems must notify the Minister of Innovation, Science and Industry upon initial deployment. This requirement ensures that the authorities are aware of the deployment of significant AI systems and can monitor their impacts and compliance with regulatory standards from the outset. This initial notification is crucial for maintaining oversight and ensuring the responsible use of AI technologies.

Reference: AIGP Body of Knowledge, domain on AI laws and standards.

NEW QUESTION 10

- (Topic 1)

Which of the following most encourages accountability over AI systems?

- A. Determining the business objective and success criteria for the AI project.
- B. Performing due diligence on third-party AI training and testing data.
- C. Defining the roles and responsibilities of AI stakeholders.
- D. Understanding AI legal and regulatory requirements.

Answer: C

Explanation:

Defining the roles and responsibilities of AI stakeholders is crucial for encouraging accountability over AI systems. Clear delineation of who is responsible for different aspects of the AI lifecycle ensures that there is a person or team accountable for monitoring, maintaining, and addressing issues that arise. This accountability framework helps in ensuring that ethical standards and regulatory requirements are met, and it facilitates transparency and traceability in AI operations. By assigning specific roles, organizations can better manage and mitigate risks associated with AI deployment and use.

NEW QUESTION 11

- (Topic 1)

Which risk management framework/guide/standard focuses on value-based engineering methodology?

- A. ISO/IEC Guide 51 (Safety).
- B. ISO 31000 Guidelines (Risk Management).
- C. IEEE 7000-2021 Standard Model Process for Addressing Ethical Concerns during System Design.

D. Council of Europe Human Rights, Democracy, and the Rule of Law Assurance Framework (HUDERIA) for AI Systems.

Answer: C

Explanation:

The IEEE 7000-2021 Standard focuses on a value-based engineering methodology for addressing ethical concerns during system design. This standard guides engineers and organizations in integrating ethical considerations into the design and development processes of AI systems, ensuring that these technologies are developed responsibly and align with human values. Reference: AIGP Study Material, section on risk management frameworks and standards.

NEW QUESTION 13

- (Topic 1)

Under the NIST AI Risk Management Framework, all of the following are defined as characteristics of trustworthy AI EXCEPT?

- A. Tested and Effective.
- B. Secure and Resilient.
- C. Explainable and Interpretable.
- D. Accountable and Transparent.

Answer: A

Explanation:

The NIST AI Risk Management Framework outlines several characteristics of trustworthy AI, including being secure and resilient, explainable and interpretable, and accountable and transparent. While being tested and effective is important, it is not explicitly listed as a characteristic of trustworthy AI in the NIST framework. The focus is more on the system's ability to function safely, securely, and transparently in a way that stakeholders can understand and trust. Reference: AIGP Body of Knowledge, NIST AI RMF section.

NEW QUESTION 18

- (Topic 1)

Machine learning is best described as a type of algorithm by which?

- A. Systems can mimic human intelligence with the goal of replacing humans.
- B. Systems can automatically improve from experience through predictive patterns.
- C. Statistical inferences are drawn from a sample with the goal of predicting human intelligence.
- D. Previously unknown properties are discovered in data and used to predict and make improvements in the data.

Answer: B

Explanation:

Machine learning (ML) is a subset of artificial intelligence (AI) where systems use data to learn and improve over time without being explicitly programmed. Option B accurately describes machine learning by stating that systems can automatically improve from experience through predictive patterns. This aligns with the fundamental concept of ML where algorithms analyze data, recognize patterns, and make decisions with minimal human intervention. Reference: AIGP BODY OF KNOWLEDGE, which covers the basics of AI and machine learning concepts.

NEW QUESTION 21

- (Topic 1)

A company is working to develop a self-driving car that can independently decide the appropriate route to take the driver after the driver provides an address. If they want to make this self-driving car "strong" AI, as opposed to "weak," the engineers would also need to ensure?

- A. That the AI has full human cognitive abilities that can independently decide where to take the driver.
- B. That they have obtained appropriate intellectual property (IP) licenses to use data for training the AI.
- C. That the AI has strong cybersecurity to prevent malicious actors from taking control of the car.
- D. That the AI can differentiate among ethnic backgrounds of pedestrians.

Answer: A

Explanation:

Strong AI, also known as artificial general intelligence (AGI), refers to AI that possesses the ability to understand, learn, and apply intelligence across a broad range of tasks, similar to human cognitive abilities. For the self-driving car to be classified as "strong" AI, it would need to possess full human cognitive abilities to make independent decisions beyond pre-programmed instructions. Reference: AIGP BODY OF KNOWLEDGE and AI classifications.

NEW QUESTION 25

- (Topic 1)

A U.S. mortgage company developed an AI platform that was trained using anonymized details from mortgage applications, including the applicant's education, employment and demographic information, as well as from subsequent payment or default information. The AI platform will be used automatically grant or deny new mortgage applications, depending on whether the platform views an applicant as presenting a likely risk of default. Which of the following laws is NOT relevant to this use case?

- A. Fair Housing Act.
- B. Fair Credit Reporting Act.
- C. Equal Credit Opportunity Act.
- D. Title VII of the Civil Rights Act of 1964.

Answer: D

Explanation:

The U.S. mortgage company's AI platform relates to housing and credit, making the Fair Housing Act (A), Fair Credit Reporting Act (B), and Equal Credit Opportunity Act (C) relevant. Title VII of the Civil Rights Act of 1964 deals with employment discrimination and is not directly relevant to the mortgage application context (D).

NEW QUESTION 29

- (Topic 2)

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

- 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.

NEW QUESTION 31

- (Topic 2)

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

- 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.

NEW QUESTION 34

- (Topic 2)

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

- 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.

NEW QUESTION 35

- (Topic 2)

You are part of your organization's ML engineering team and notice that the accuracy of a model that was recently deployed into production is deteriorating. What is the best first step address this?

- A. Replace the model with a previous version.
- B. Conduct champion/challenger testing.
- C. Perform an audit of the model.
- D. Run red-teaming exercises.

Answer: B

Explanation:

When the accuracy of a model deteriorates, the best first step is to conduct champion/challenger testing. This involves deploying a new model (challenger) alongside the current model (champion) to compare their performance. This method helps identify if the new model can perform better under current conditions without immediately discarding the existing model. It provides a controlled environment to test improvements and understand the reasons behind the deterioration. This approach is preferable to directly replacing the model, performing audits, or running red-teaming exercises, which may be subsequent steps based on the findings from the champion/challenger testing.

Reference: AIGP BODY OF KNOWLEDGE, sections on model performance management and testing strategies.

NEW QUESTION 39

- (Topic 2)

During the development of semi-autonomous vehicles, various failures occurred as a result of the sensors misinterpreting environmental surroundings, such as sunlight.

These failures are an example of?

- A. Hallucination.
- B. Brittleness.
- C. Uncertainty.
- D. Forgetting.

Answer: B

Explanation:

The failures in semi-autonomous vehicles due to sensors misinterpreting environmental surroundings, such as sunlight, are examples of brittleness. Brittleness in AI systems refers to their inability to handle variations in input data or unexpected conditions, leading to failures when the system encounters situations that were not adequately covered during training. These systems perform well under specific conditions but fail when those conditions change. Reference: AIGP Body of Knowledge on AI System Robustness and Failures.

NEW QUESTION 40

- (Topic 2)

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.

What is the best reason the police department should continue to perform investigations even if the AI system scores an individual's likelihood of criminal activity at or above 90%?

- A. Because the department did not perform an impact assessment for this intended use.
- B. Because AI systems that affect fundamental civil rights should not be fully automated.
- C. Because investigations may identify additional individuals involved in the crime.
- D. Because investigations may uncover information relevant to sentencing.

Answer: B

Explanation:

The best reason for the police department to continue performing investigations even if the

AI system scores an individual's likelihood of criminal activity at or above 90% is that AI systems affecting fundamental civil rights should not be fully automated.

Human oversight is essential to ensure that decisions impacting civil liberties are made with due consideration of context and mitigating factors that an AI might not fully appreciate. This approach ensures fairness, accountability, and adherence to legal standards. Reference: AIGP Body of Knowledge on AI Ethics and Human Oversight.

NEW QUESTION 41

- (Topic 2)

What is the term for an algorithm that focuses on making the best choice achieve an immediate objective at a particular step or decision point, based on the available information and without regard for the longer-term best solutions?

- A. Single-lane.
- B. Optimized.
- C. Efficient.
- D. Greedy.

Answer: D

Explanation:

A greedy algorithm is one that makes the best choice at each step to achieve an immediate objective, without considering the longer-term consequences. It

focuses on local optimization at each decision point with the hope that these local solutions will lead to an optimal global solution. However, greedy algorithms do not always produce the best overall solution for certain problems, but they are useful when an immediate, locally optimal solution is desired. Reference: AIGP Body of Knowledge, algorithm types section.

NEW QUESTION 46

- (Topic 2)

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?

- 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.

NEW QUESTION 50

- (Topic 2)

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?

- 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.

NEW QUESTION 53

- (Topic 2)

All of the following are included within the scope of post-deployment AI maintenance EXCEPT?

- A. Ensuring that all model components are subject a control framework.
- B. Dedicating experts to continually monitor the model output.
- C. Evaluating the need for an audit under certain standards.
- D. Defining thresholds to conduct new impact assessments.

Answer: D

Explanation:

Post-deployment AI maintenance typically includes ensuring that all model components are subject to a control framework, dedicating experts to continually monitor the model output, and evaluating the need for audits under certain standards. However, defining thresholds to conduct new impact assessments is usually part of the initial deployment and ongoing governance processes rather than a maintenance activity. Maintenance focuses more on the operational aspects of the AI system rather than setting new thresholds for impact assessments.

Reference: AIGP BODY OF KNOWLEDGE, sections discussing AI lifecycle management and post-deployment activities.

NEW QUESTION 54

- (Topic 2)

You are an engineer that developed an AI-based ad recommendation tool. Which of the following should be monitored to evaluate the tool's effectiveness?

- A. Output data, assess the delta between the prediction and actual ad clicks.
- B. Algorithmic patterns, to show the model has a high degree of accuracy.
- C. Input data, to ensure the ads are reaching the target audience.
- D. GPU performance, to evaluate the tool's robustness.

Answer: A

Explanation:

To evaluate the effectiveness of an AI-based ad recommendation tool, the most relevant metric is the output data, specifically assessing the delta between the prediction and actual ad clicks. This metric directly measures the tool's accuracy and effectiveness in making accurate recommendations that lead to user engagement. While monitoring algorithmic patterns and input data can provide insights into the model's behavior and targeting accuracy, and GPU performance can indicate the robustness and efficiency of the tool, the primary indicator of effectiveness for an ad recommendation tool is how well it predicts actual ad clicks.

Reference: AIGP BODY OF KNOWLEDGE, sections on AI performance metrics and evaluation methods.

NEW QUESTION 59

- (Topic 2)

A company has trained an ML model primarily using synthetic data, and now intends to use live personal data to test the model.

Which of the following is NOT a best practice apply during the testing?

- A. The test data should be representative of the expected operational data.
- B. Testing should minimize human involvement to the extent practicable.
- C. The test data should be anonymized to the extent practicable.
- D. Testing should be performed specific to the intended uses.

Answer: B

Explanation:

Minimizing human involvement to the extent practicable is not a best practice during the testing of an ML model. Human oversight is crucial during testing to ensure that the model

performs correctly and ethically, and to interpret any anomalies or issues that arise. Best practices include using representative test data, anonymizing data to the extent practicable, and performing testing specific to the intended uses of the model. Reference: AIGP Body of Knowledge on AI Model Testing and Human Oversight.

NEW QUESTION 64

- (Topic 2)

Pursuant to the White House Executive Order of November 2023, who is responsible for creating guidelines to conduct red-teaming tests of AI systems?

- A. National Institute of Standards and Technology (NIST).
- B. National Science and Technology Council (NSTC).
- C. Office of Science and Technology Policy (OSTP).
- D. Department of Homeland Security (DHS).

Answer: A

Explanation:

The White House Executive Order of November 2023 designates the National Institute of Standards and Technology (NIST) as the responsible body for creating guidelines to conduct red-teaming tests of AI systems. NIST is tasked with developing and providing standards and frameworks to ensure the security, reliability, and ethical deployment of AI systems, including conducting rigorous red-teaming exercises to identify vulnerabilities and assess risks in AI systems.

Reference: AIGP BODY OF KNOWLEDGE, sections on AI governance and regulatory frameworks, and the White House Executive Order of November 2023.

NEW QUESTION 69

- (Topic 2)

The White House Executive Order from November 2023 requires companies that develop dual-use foundation models to provide reports to the federal government about all of the following EXCEPT?

- A. Any current training or development of dual-use foundation models.
- B. The results of red-team testing of each dual-use foundation model.
- C. Any environmental impact study for each dual-use foundation model.
- D. The physical and cybersecurity protection measures of their dual-use foundation models.

Answer: C

Explanation:

The White House Executive Order from November 2023 requires companies developing dual-use foundation models to report on their current training or development activities, the results of red-team testing, and the physical and cybersecurity protection measures. However, it does not mandate reports on environmental impact studies for each dual-use foundation model. While environmental considerations are important, they are not specified in this context as a reporting requirement under this Executive Order.

Reference: AIGP BODY OF KNOWLEDGE, sections on compliance and reporting requirements, and the White House Executive Order of November 2023.

NEW QUESTION 72

- (Topic 2)

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?

- 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.

NEW QUESTION 75

- (Topic 2)

Which of the following AI uses is best described as human-centric?

- A. Pattern recognition algorithms are used to improve the accuracy of weather predictions, which benefits many industries and everyday life.
- B. Autonomous robots are used to move products within a warehouse, allowing human workers to reduce physical strain and alleviate monotony.
- C. Machine learning is used for demand forecasting and inventory management, ensuring that consumers can find products they want when they want them.
- D. Virtual assistants are used adapt educational content and teaching methods to individuals, offering personalized recommendations based on ability and needs.

Answer: D

Explanation:

Human-centric AI focuses on improving the human experience by addressing individual needs and enhancing human capabilities. Option D exemplifies this by using virtual assistants to tailor educational content to each student's unique abilities and needs, thereby supporting personalized learning and improving educational outcomes. This use case directly benefits individuals by providing customized assistance and adapting to their learning pace and style, aligning with the principles of human-centric AI.

Reference: AIGP BODY OF KNOWLEDGE, sections on trustworthy AI and human-centric AI principles.

NEW QUESTION 77

- (Topic 2)

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

- 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.

NEW QUESTION 82

- (Topic 2)

All of the following are reasons to deploy a challenger AI model in addition a champion AI model EXCEPT to?

- A. Provide a framework to consider alternatives to the champion model.
- B. Automate real-time monitoring of the champion model.
- C. Perform testing on the champion model.
- D. Retrain the champion model.

Answer: D

Explanation:

Deploying a challenger AI model alongside a champion model is a strategy used to compare the performance of different models in a real-world environment. This approach helps in providing a framework to consider alternatives to the champion model, automating real-time monitoring of the champion model, and performing testing on the champion model. However, retraining the champion model is not a reason to deploy a challenger model. Retraining is a separate process that involves updating the champion model with new data or techniques, which is not related to the use of a challenger model.

Reference: AIGP BODY OF KNOWLEDGE, sections on model evaluation and management.

NEW QUESTION 86

- (Topic 2)

What is the technique to remove the effects of improperly used data from an ML system?

- A. Data cleansing.
- B. Model inversion.
- C. Data de-duplication.
- D. Model disgorgement.

Answer: D

Explanation:

Model disgorgement is the technique used to remove the effects of improperly used data from an ML system. This process involves retraining or adjusting the model to eliminate any biases or inaccuracies introduced by the inappropriate data. It ensures that the model's outputs are not influenced by data that was not meant to be used or was used incorrectly. Reference: AIGP Body of Knowledge on Data Management and Model Integrity.

NEW QUESTION 88

- (Topic 2)

An artist has been using an AI tool to create digital art and would like to ensure that it has copyright protection in the United States.

Which of the following is most likely to enable the artist to receive copyright protection?

- A. Ensure the tool was trained using publicly available content.
- B. Obtain a representation from the AI provider on how the tool works.
- C. Provide a log of the prompts the artist used to generate the images.
- D. Update the images in a creative way to demonstrate that it is the artist's.

Answer: D

Explanation:

For the artist to receive copyright protection, the most effective approach is to demonstrate that the final artwork includes sufficient creative input by the artist. By updating or altering the images in a way that reflects the artist's personal creativity, the artist can claim originality, which is a core requirement for copyright protection under U.S. law. The other options do not directly address the originality and creative input required for copyright. This is highlighted in the sections on copyright protection in the IAPP AIGP Body of Knowledge.

NEW QUESTION 90

- (Topic 2)

Which of the following deployments of generative AI best respects intellectual property rights?

- A. The system produces content that is modified to closely resemble copyrighted work.
- B. The system categorizes and applies filters to content based on licensing terms.
- C. The system provides attribution to creators of publicly available information.
- D. The system produces content that includes trademarks and copyrights.

Answer: B

Explanation:

Respecting intellectual property rights means adhering to licensing terms and ensuring that generated content complies with these terms. A system that categorizes and applies filters based on licensing terms ensures that content is used legally and ethically, respecting the rights of content creators. While providing attribution is important, categorization and application of filters based on licensing terms are more directly tied to compliance with intellectual property laws. This principle is elaborated in the IAPP AIGP Body of Knowledge sections on intellectual property and compliance.

NEW QUESTION 95

- (Topic 2)

CASE STUDY

Please use the following answer the next question:

A mid-size US healthcare network has decided to develop an AI solution to detect a type of cancer that is most likely arise in adults. Specifically, the healthcare network intends to create a recognition algorithm that will perform an initial review of all imaging and then route records a radiologist for secondary review pursuant Agreed-upon criteria (e.g., a confidence score below a threshold).

To date, the healthcare network has taken the following steps: defined its AI ethical principles; conducted discovery to identify the intended uses and success criteria for the system; established an AI governance committee; assembled a broad, crossfunctional team with clear roles and responsibilities; and created policies and procedures to document standards, workflows, timelines and risk thresholds during the project.

The healthcare network intends to retain a cloud provider to host the solution and a consulting firm to help develop the algorithm using the healthcare network's existing data and de-identified data that is licensed from a large US clinical research partner.

The most significant risk from combining the healthcare network's existing data with the clinical research partner data is?

- A. Privacy risk.
- B. Security risk.
- C. Operational risk.
- D. Reputational risk.

Answer: A

Explanation:

The most significant risk from combining the healthcare network's existing data with the clinical research partner data is privacy risk. Combining data sets, especially in healthcare, often involves handling sensitive information that could lead to privacy breaches if not managed properly. De-identified data can still pose re-identification risks when combined with other data sets. Ensuring privacy involves implementing robust data protection measures, maintaining compliance with privacy regulations such as HIPAA, and conducting thorough privacy impact assessments. Reference: AIGP Body of Knowledge on Data Privacy and Security.

NEW QUESTION 99

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