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CET-110

Ethical Emerging Technologist



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Question: 1

Why is it essential to align ethical policies with international standards such as IEEE or OECD guidelines?

Response:

- A. To gain immediate regulatory exemptions
- B. To replace local legal obligations
- C. To improve interoperability and global credibility
- D. To delay internal compliance processes

Answer: C

Question: 2

Why can algorithmic transparency create tension with a company's intellectual-property strategy?

Response:

- A. Disclosing model logic may reveal trade secrets
- B. Transparency decreases model inference speed
- C. Regulators prohibit sharing any model details
- D. IP laws require full algorithm publication

Answer: A

Question: 3

Scenario: A social-media company releases an algorithmic-content filter. Civil-rights groups allege the filter suppresses minority voices. The company plans an external response. Which communication steps best address stakeholder concerns?

(Choose three)

Response:

- A. Publish model transparency reports detailing training data and performance by demographic
- B. Issue a generic statement denying bias without evidence
- C. Invite independent experts to audit and publish findings
- D. Offer a public Q&A session with the ethics leads
- E. Restrict all technical details to internal documents only

Answer: A,C,D

Question: 4

Which strategies can help reconcile business imperatives with regulatory demands when conflicts surface?

(Choose two)

Response:

- A. Implementing “privacy by design” from project inception
- B. Avoiding external audits to protect trade secrets
- C. Creating cross-functional ethics committees
- D. Collecting more data to ensure future flexibility

Answer: A,C

Question: 5

Which ethical principles are most likely to clash with profit-driven personalization strategies?

(Choose two)

Response:

- A. Data minimization
- B. Autonomy and informed consent
- C. Model robustness
- D. Scalability

Answer: A,B

Question: 6

Which of the following are key principles of utilitarianism in ethical decision-making?

(Choose two)

Response:

- A. Emphasizing long-term consequences
- B. Obeying universal moral rules
- C. Maximizing overall happiness or utility
- D. Prioritizing personal virtue development

Answer: A,C

Question: 7

Which ethical framework would be most appropriate for analyzing whether an autonomous drone's decision to strike a target violates moral duties, regardless of outcome?

Response:

- A. Utilitarianism
- B. Consequentialism
- C. Deontology
- D. Pragmatism

Answer: C

Question: 8

When might a business lawfully retain user data longer than the "data-minimization" ethical principle recommends?

Response:

- A. When local data-breach laws are outdated
- B. When retention is required for tax or contractual compliance
- C. When storage costs are negligible
- D. When encryption algorithms are upgraded

Answer: B

Question: 9

What is the most appropriate method to minimize privacy risk when collecting personal data for a machine learning model?

Response:

- A. Use data compression to store records
- B. Perform anonymization or pseudonymization techniques
- C. Extend data retention policies
- D. Collect as much information as possible for future use

Answer: B

Question: 10

What ethical dilemma is created when targeted advertising algorithms amplify divisive content simply because it drives higher engagement and revenue?

Response:

- A. Dual-use conflict
- B. Fairness versus profitability
- C. Data minimization versus explainability
- D. Sustainability versus accessibility

Answer: B

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