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Leadership and Management	250

Strategy and Operations	171

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1. Why does the trolley problem pose an ethical predicament?   **1 / 1 point**

○ The moral responsibility is split between you and the person controlling the trolley.

○ You as the actor don't have sufficient control over the circumstance.

◉ You have to make a choice between two scenarios where choosing one leads to loss of life in the other.

○ There are so many potential outcomes that it becomes difficult to choose one that is most ethical.

> ✓ **Correct**
> There are different ethical framings that can help address this predicament; for example, utilitarian ethics would advocate for saving the largest number of lives.

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2. Which of the following ethical considerations should have priority in an emergency situation like the use of contact-tracing solutions during a pandemic? (Select two.)   **1 / 1 point**

☐ Explainability

☐ Bias

☑ Privacy

> ✓ **Correct**
> Privacy is important since it factors into whether people would be comfortable sharing their data.

☑ Accountability

> ✓ **Correct**
> Accountability is important because it holds those who have custody over location data under mandates that prevent its misuse.

3. In using AI-enabled solutions within the context of medical imaging analysis, which of the following is the most important ethical consideration?

1 / 1 point

- ○ Security
- ○ Bias
- ◉ Explainability
- ○ Privacy

> ✓ **Correct**
> A doctor needs to be able to explain to their patients why a certain diagnostic recommendation is made by the system.

4. If an AI-enabled system enables addictive behavior, which of the following makes for the most compelling argument to stop development work on that system?

1 / 1 point

- ○ There is a lack of accountability on the part of the user since they overuse the service.
- ○ The process for obtaining consent has not been made transparent to the user.
- ◉ The system, as designed, acts counter to the well-being of the users.
- ○ The user will share more data with the system because of increased use.

> ✓ **Correct**
> Several ethical frameworks have the well-being of users as one of their core tenets.

5. Why do smart toys raise additional ethical concerns over those that are raised in the course of other products and services that use AI?

1 / 1 point

- ○ The smart toys store personal data on the device, which can be stolen.
- ◉ Children are more susceptible to manipulation and therefore need extra protective measures.
- ○ It is difficult to obtain informed consent for the use of the smart toy.
- ○ They are used in the privacy of homes rather than in public settings, like other products or services.

> ✓ **Correct**
> This is true since children are not able to fully perceive all the negative consequences from the use of the smart toy.

6. Which of the following software development principles is essential in the real-world deployment of AI-enabled software applications in critical scenarios like self-driving cars?

1 / 1 point

- ◉ Robustness to adversarial examples
- ○ Continuous integration and deployment of patch updates

○ Continuous integration and deployment of patch updates

○ Version control of the AI models deployed

○ Architectural design analysis

⊘ **Correct**

In the real-world, a system can encounter examples that might confound it and trigger misclassification or otherwise unintended behavior; therefore, robustness to adversarial examples is crucial.

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7. Which of the following is the most important argument in favor of content moderation in online platforms?

1 / 1 point

○ It creates adequate incentives for everyone to share their opinions.

○ It helps uphold freedom of expression for everyone and doesn't give anyone special rights.

○ It prevents the development of monopolies in terms of content creators.

◉ It prevents the spread of disinformation that can cause harm to vulnerable populations.

⊘ **Correct**

Content moderation helps to regulate harmful content on the platform through the use of both automated and human actors.

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8. Why is the question of robot rights and emancipation one that isn't as important as addressing issues of bias, privacy, transparency, and other principles discussed in the various ethical frameworks?

1 / 1 point

○ Robots are mechanical instruments and therefore don't deserve to have rights.

○ There is no legal precedent for granting rights to entities that are not humans.

◉ These rights necessitate that robots become sentient entities, which is currently not feasible.

○ Humans are anthropocentric and don't want to extend rights to other sentient entities.

⊘ **Correct**

Most AI systems that we have today are very narrow in their capabilities and are very far away from having moral agency, making this a far more distant concern.

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9. Which of the following is the most important ethical consideration regarding technical developments like deepfakes?

1 / 1 point

○ They take away monetization opportunities, leaving individuals unfairly compensated for their data.

○ They violate data sharing agreements in many jurisdictions.

○ They are built on technological progress made by a third-party organization.

◉ They usurp a person's likeness and can then be weaponized against them.

⊘ **Correct**

Deepfakes can take away an individual's ability to control what is done with their likeness, including their face, voice, and other personal data.

10. Why are anonymization and pseudonymization insufficient protection measures against breaches of data privacy and security?

○ They destroy the usefulness of the data.

○ They don't integrate well into data science and machine learning workflows.

○ They only work in scenarios with particular kinds of personal information.

◉ They can be broken by combining this data with other publicly available data.

✓ **Correct**
This describes the mosaic effect, which is the primary consideration in the move away from these techniques and toward techniques like differential privacy, which are robust against these attacks.

1 / 1 point