

Activity/Assessment Questions on Privacy vs. Convenience

Multiple choice

Instruction: Select the correct option.

1. Which of the following is a common cause of bias in AI systems?

- A. Random errors
- B. Biased training data
- C. Neutral algorithms
- D. Fair testing conditions

(Correct answer: B. Biased training data)

2. What is one potential negative impact of biased AI in education?

- A. Improved accuracy in student assessments
- B. Increased access to advanced learning opportunities
- C. Unfair disadvantages to certain groups of students
- D. Faster processing of student data

(Correct answer: C. Unfair disadvantages to certain groups of students)

3. How can AI transparency be improved in educational settings?

- A. By hiding the decision-making process
- B. By making the algorithms more complex
- C. By explaining how decisions are made
- D. By removing human oversight

(Correct answer: C. By explaining how decisions are made)

4. Which group of students was disproportionately flagged by the AI system in the case study?
- A. High-performing students
 - B. Students from certain demographic backgrounds
 - C. Students with perfect attendance
 - D. Students involved in extracurricular activities
- (Correct answer: B. Students from certain demographic backgrounds)

5. What role did human educators play after the AI system was audited?
- A. They were removed from the decision-making process
 - B. They made all decisions without AI input
 - C. They used AI recommendations but made the final decisions
 - D. They retrained the AI without further oversight
- (Correct answer: C. They used AI recommendations but made the final decisions)

Fill in the blank

Instruction: Read the sentence and fill in the blank with the correct option.

6. AI bias often arises from biased _____ data used to train the models.
(Correct answer: training)
7. The process of making AI decisions more understandable to humans is called _____. (Correct answer: Answer: explainability)
8. Ensuring that AI systems provide equal opportunities for all students is a matter of _____.
(Correct answer: fairness)
9. The AI system in the case study was found to impact students from _____ backgrounds disproportionately.
(Correct answer: certain demographic)

10. A key method to reduce AI bias is to include _____ oversight in decision-making.

(Correct answer: human)

Multiple correct answers

Instruction: Select all the correct options.

11. Which actions are taken to address AI bias in the case study?

- A. Auditing the AI system
- B. Eliminating human oversight
- C. Retraining the model
- D. Removing transparency

(Correct answers: A, C)

12. What are some ethical concerns associated with AI in education?

- A. Fairness
- B. Privacy
- C. Speed of decision-making
- D. Equality of opportunity

(Correct answers: A, B, D)

13. How can educational institutions monitor AI systems for fairness?

- A. Conducting regular audits
- B. Ignoring complaints about bias
- C. Continuous data collection and analysis
- D. Removing AI systems entirely

(Correct answers: A, C)

Scenario-based questions

14. **Scenario:** You are a teacher who notices that an AI system is consistently flagging minority students for remedial classes, even though their performance is average or above average. **Question:** What would you do to address this issue?

- A. Ignore the AI recommendations
- B. Report the issue to the school administration
- C. Discuss the situation with the affected students
- D. Rely solely on your judgment to decide on student placement

(Correct answer: B)

15. **Scenario:** As a student, you find out that the AI used in your school's admission process seems to favor students from wealthier backgrounds.

Question: How would you advocate for fairness in this situation?

- A. Write a letter to the school board
- B. Organize a student petition for AI transparency
- C. Ignore the issue and focus on your studies
- D. Discuss your concerns with a teacher or counselor

(Correct answer: D)

16. **Scenario:** Your school introduces a new AI-driven learning platform. You notice that it doesn't consider your learning style and suggests topics you've already mastered.

Question: What would you do to improve your learning experience?

- A. Talk to your teacher about adjusting the AI settings
- B. Continue using the platform without changes
- C. Seek alternative resources that match your learning style
- D. Ignore the AI recommendations and study your way

(Correct answer: A)

17. **Scenario:** A friend of yours is flagged by an AI system as at-risk academically, even though you know they are performing well. They are upset and worried about their future. **Question:** How would you support your friend, and what steps would you take to help them challenge the AI's assessment?

(Correct actions: Encourage your friend to talk to a teacher or counselor, help them gather evidence of their good performance, support them in appealing the AI's decision, and discuss the issue with school authorities to prevent similar cases).

18. **Scenario:** Your school is considering using AI to assist college admissions. Some students are worried that the AI might favor applicants from wealthier backgrounds.

Question: What would you do to ensure the AI system is fair for all students?

(Correct actions: Advocate for a thorough review of the AI's training data, suggest including input from diverse student groups in the decision-making process, and propose the inclusion of factors that fairly represent all students' backgrounds).

19. **Scenario:** Imagine your school uses an AI system to allocate resources like tutoring or advanced classes. You notice that the system consistently overlooks students from certain backgrounds.

Question: What actions would you take to ensure these students are fairly considered?

(Correct actions: Report the issue to school authorities, organize discussions with affected students, advocate for a review of the AI system, and propose a more inclusive approach to resource allocation).

20. **Scenario:** You are part of a student council, and your school plans to implement an AI-based disciplinary system. There are concerns that it might unfairly target certain students.

Question: How would you address these concerns in a council meeting?

(Correct actions: Raise the issue of potential bias, suggest a trial period with close monitoring, advocate for transparency in how the AI makes).