

Name _____

Navigating the Ethics of Artificial Intelligence and Machine Learning

Short Answer Key

1. Answer: Bias in AI and ML algorithms can lead to unfair treatment of certain groups of people. For example, if an AI system is biased towards a particular race or gender, it may make unfair decisions in areas like job recruitment or lending, disadvantaging some individuals.
2. Answer: Transparency is important because it helps people understand how AI systems make decisions. It allows users to trust the technology and know if it's being used fairly. Without transparency, AI can seem mysterious and untrustworthy.
3. Answer: When there is a lack of accountability, it becomes unclear who is responsible for AI's actions and decisions. This can lead to confusion and make it challenging to address issues or mistakes caused by AI. Accountability ensures that someone takes responsibility when things go wrong.
4. Answer: One example of privacy concerns in AI and ML is when personal data, like medical records or location data, is used without people's consent. For instance, if a health app collects sensitive health information without proper protection, it could violate users' privacy.
5. Answer: Trust is crucial in the ethical use of AI and ML because users need to have confidence that their data will be handled responsibly, that AI systems will make fair decisions, and that developers will be accountable for any issues. Without trust, people may be hesitant to use AI technologies.

