

Name _____

Navigating the Ethics of Artificial Intelligence and Machine Learning

Open-Ended Response Answer Key

1. Answer: If I discovered that an AI system unfairly denied me a job opportunity, I would first gather evidence to support my claim. This could include documenting the details of the application and any communication with the company. Then, I would contact the company's HR department or relevant authorities to report the issue. Ethics play a crucial role in my actions because I am advocating for fairness and justice. By taking these steps, I am holding the AI system and its developers accountable for their actions, ensuring that they follow ethical guidelines.
2. Answer: In the context of self-driving cars, transparency and accountability are crucial. Without transparency, passengers and pedestrians wouldn't understand how the car makes decisions, leading to confusion and mistrust. Without accountability, it would be challenging to determine responsibility in case of accidents. For example, if a self-driving car causes a collision, it might be unclear whether the car's manufacturer, the software developer, or the car owner should be held accountable. This lack of accountability could lead to legal and safety issues, making it essential to have these principles in place.
3. Answer: Fairness is crucial to ensure that AI and ML systems treat everyone equally and do not discriminate. Privacy is important to protect individuals' personal information from misuse. Transparency ensures that people can understand how AI systems make decisions, fostering trust. Accountability holds developers responsible for the consequences of AI actions, promoting ethical behavior and addressing issues when they arise.
4. Answer: Individuals can protect their privacy when interacting with AI and ML technologies by being cautious about sharing personal information. They should read privacy policies, limit data sharing, use strong passwords, and keep software updated. This is important because protecting privacy ensures that personal information is not misused or accessed without permission. It prevents potential harm, such as identity theft or unauthorized data collection, and preserves individuals' rights and freedoms.

