

Name _____

Machine Learning Unraveled: Teaching Computers to Learn Like Humans

Open-Ended Response Answer Key

1. Possible Answer: Ethical concerns in Machine Learning include privacy violations when personal data is used without consent, and bias in ML algorithms that can result in unfair or discriminatory outcomes. Addressing these concerns involves implementing strict data privacy regulations, transparent AI algorithms, and continuous monitoring and mitigation of bias.
2. Possible Answer: Without Machine Learning, technology would lack personalization and adaptability. We would see a decrease in the accuracy of recommendations, less efficient spam filtering, and less advanced voice assistants. Many tasks that rely on pattern recognition would be less efficient or not possible.
3. Possible Answer: This response will vary based on the individual's personal experience. They should describe how the recommendation system enhanced or affected their experience and provide their opinion on the accuracy of the suggestions.
4. Possible Answer: Machine Learning is groundbreaking because it allows computers to learn and make decisions based on data without being explicitly programmed. Unlike traditional programming, where developers write specific instructions, Machine Learning algorithms can adapt and improve by learning from data, making them versatile and capable of handling complex tasks.

