

Name _____

Machine Learning Unraveled: Teaching Computers to Learn Like Humans

Short Answer Key

1. Possible Answer: Data preprocessing in Machine Learning involves cleaning, organizing, and preparing data so that it is suitable for training. This step ensures that the data is in a format that allows ML algorithms to learn effectively.
2. Possible Answer: Machine Learning is used in healthcare to assist in medical diagnosis, such as using ML algorithms to analyze medical imaging (X-rays, MRIs) for the early detection of diseases like cancer.
3. Possible Answer: Machine Learning on platforms like Netflix analyzes your viewing history and preferences to suggest movies or shows that you might like. It continuously learns from your interactions, improving the accuracy of its recommendations over time.
4. Possible Answer: The testing and evaluation phase in Machine Learning is crucial to ensure that the model can make accurate predictions or decisions with new, unseen data. It assesses the model's performance and reliability before deploying it for real-world tasks.
5. Possible Answer: Image recognition powered by Machine Learning is beneficial in autonomous vehicles, where it helps the vehicle recognize and interpret traffic signs, pedestrians, and other objects on the road, contributing to safe navigation.

