Pre-Lab Activity Worksheet: Introduction to Artificial Intelligence

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Before attending the AI lab session, please complete the following pre-lab activity to familiarize yourself with some foundational AI concepts.

1. What does the term "Artificial Intelligence" refer to?

a) Creating robots that mimic human behavior

b) Building computer programs to solve math problems

c) Developing algorithms that can think and learn like humans

d) Designing video games

Explain your answer: C because AI is a theory and development of computer systems capable of performing tasks that historically required human intelligence, such as recognizing speech, making decisions, and identifying patterns.

1. Which of the following is a subfield of AI that focuses on teaching computers to learn from data and improve their performance?

a) Robotics

b) Natural Language Processing (NLP)

c) Machine Learning

d) Computer Vision

Explain your answer: **D.** because in this subfield of AI is concerned with enabling computers to recognize, understand, and interpret visual information from the world. This is called computer vision and it also falls under the greater concept of machine perception together with speech or audio recognition.

1. Imagine you are tasked with designing an AI system for a self-driving car.

What are some ethical considerations you should keep in mind during the development of this AI technology?

Discuss at least two ethical concerns and possible solutions.

Your Answer: Discipline and safety to have a safety AI system