



Artificial Intelligence

Assignment 1: AI Achievements and Expectations

Deadline: October 15, 2023

General Remarks

- You are free to consult with other students. The assignment is, however, individual, meaning that each submitted assignment has to be sufficiently unique.
- Always motivate your answers. Detail the steps needed to come to your conclusions.
- You are free to provide answers in either English or Dutch.
- If anything is unclear or if you experience technical problems with the assignment, contact me at joey.depauw@uantwerpen.be.

Context

The potential dangers of AI have been a subject of significant concern among researchers, ethicists, and policymakers. Some of the key concerns include:

Ethical Concerns: AI systems can be programmed to behave unethically or to perpetuate bias if not properly designed and monitored. For example, biased training data can lead to AI systems making discriminatory decisions.

Job Displacement: The automation of tasks and jobs by AI and robots could lead to significant job displacement in certain industries, potentially causing economic and social disruption.

Security Risks: AI can be used for malicious purposes, such as hacking, spreading disinformation, or launching cyberattacks. It can also be used to create more advanced and dangerous weaponry.

Lack of Accountability: Decisions made by AI systems may not always be transparent or easily explainable, which can lead to challenges in holding individuals or organizations accountable for the outcomes of AI-driven actions.

Superintelligent AI: Concerns have been raised about the potential development of superintelligent AI systems that could surpass human intelligence. If such systems are not aligned with human values and goals, they could pose existential risks.

Privacy Issues: AI systems that analyze vast amounts of data can raise concerns about privacy, as they can potentially infringe on individuals' rights by collecting, analyzing, and using personal information without consent.

Social Manipulation: AI-powered algorithms on social media platforms can manipulate public opinion, spread fake news, and contribute to the polarization of society.

Over-Dependence on AI: Usage of AI tools can degrade the critical thinking of the people who use them and, in general, reduce their own ability to perform or learn tasks they would otherwise do themselves.

Assignment (5 points)

For this assignment, write your opinions about three of these topics of your choice in a short essay (maximum 1 page). Express your thoughts, concerns, and insights on the three chosen topics. Include arguments and examples to support your opinions.

However, rather than doing this yourself, have a large language model such as [ChatGPT](#) solve the assignment for you. Then annotate the provided output with **your own** opinions and expectations (maximum 1 page). Specifically focus on the following:

- Did you expect certain answers? Were they new information for you, or had you thought of this yourself before?
- Do you agree with the viewpoints? Are the listed problems actually relevant in your opinion, and to what degree?
- Do you have any personal experience related to the concern?

Note that you can still pick three of the topics you find most interesting yourself and provide them to the large language model. Do not use a large language model for the annotation!

Submission

Upload a single pdf file `report.pdf` via Blackboard. Make sure it includes the following:

- A title.
- Your name.
- The output of the large language model (in text or as a screenshot, max. 1 page).
- The name of the used model.
- Your annotation of the output (max. 1 page).

Good Luck!
