



TITLE: AI privacy and ethical issues

LEARNING SCENARIO

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|-----------------|----------------------------|-----|
| School: | Duration (minutes): | 90 |
| Teacher: | Students age: | 10+ |

Essential Idea:

What about the ethical side of the data that we use to train models?

Topics:

- artificial intelligence, machine learning,

Aims:

- planning of the processes enabling the use of newest technologies in various areas of life
- developing the skills of logical thinking, intuition, imagination and inference
- problem solving and communication using a computer and other digital devices

Outcomes:

- developing elements of students' cooperation, exchange of ideas and experiences with the use of technology
- developing creative problem solving skills
- developing the ability of using AI support wisely and consciously

Work forms:

- individual work, work in pairs, group work

Methods:

- presentation, talk, interactive exercise

ARTICULATION

The course of action (duration, minutes)

INTRODUCTION

What is privacy?
How do we protect our privacy?





Can AI undermine our privacy?

Announcement of the goal of the lesson:

We'll be talking about the ethics of the data that we use to train these models.

MAIN PART

AI technology is developed by humans, and created with human-centric goals in mind. Siri, Alexa and Google Home are not just robots, a person with an arsenal of computer engineering knowledge is responsible for the intelligent voices coming out of these sleek devices. The technology that runs on AI is programmed by people, which means that these machines are prone to the mistakes we make and the biases we have as human beings.

Just the fact that this intelligence is called "artificial" should be a tip, but the answer here is data. And the more, the merrier. When AI designers are developing a given technology, they need to collect an enormous amount of data to ensure maximum accuracy. The source of that data? You and I, our personal information, our daily routines, our interests, and how it all manifests itself online. With that, come issues of privacy, and how ethical it is to use information that was not necessarily intended for the development of a given technology. Because children are now getting cell phones before hitting their teens and living in a tech-filled world, it is important to know the ins and outs of the technology around them.

Data can be a pretty powerful tool for computational systems, but it must be used responsibly and ethically. Privacy is an important element in data usage because we might not want our personal information to be shared on a large scale.

Topics for discussion:

How many of you would be okay with hackers having access to your email username?

Your phone number?

Your TikTok username?

A picture of your face?

What if people not only had access to them but could also trace what you post and what do you do by using those identifiers?

Interactive exercise:

- Students create a shared online poster with tips on how to protect their privacy.
- Discuss.

CONCLUSION

AI devices are not almighty robots. They are devices created with the minds and hands of people and just like people, they can make mistakes. More importantly, mistakes can be fixed and they can be the ones to grow up and fix them.

Methods

presentation

talk/discussion

work on the text

graphic work

interactive exercise /simulation on the computer

interview

demonstration

role playing

Work forms

individual work

work in pairs

group work

frontal work





Material

- <https://docs.google.com/document/d/1e9wx9oBg7CR0s5O7YnYHVmX7H7pnlTfoDxNdrSGkp60/view>

Literature

- <https://teachablemachine.withgoogle.com>
- <https://kidscodejeunesse.org>

PERSONAL OBSERVATIONS, COMMENTS AND NOTES

Empty box for personal observations, comments and notes.

