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|  | **Ethics in Machine Learning** |  |

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## For the following activities you will be exploring various ethical issues related to machine learning. Watch the videos and discuss with a group the questions related to the videos.

[Moral Code: The Ethics of AI](https://www.youtube.com/watch?v=GboOXAjGevA)

* What listed reasons can data be “bad”? (3 reasons)

Not been properly labeled, biases involved into the data, not enough of it to inform correctly

* What do the AI experts mean when they say “Transparency”? Why is this important?

They mean to explain the logical steps it went through to get its answer. It is important because we can't explain what has happened. We don't understand AI for the most part.

* What are the biggest threats and biggest benefits of AI?

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| Threats | Benefits |
| It can influence you. | Helps solve climate change |
| Drones with weapons | Helps cure cancer |
| People that have money might gain more power | Helps better our world |
| Isms being involved heavily into AI | Very best solve all of our problems |

[Combatting artificial bias](https://www.youtube.com/watch?v=TWWsW1w-BVo)

* Outline the problem in a single statement:

Most AIs don't recognize darker skinned people correctly.

* What ethical barriers does this technology cross?

AIs technically have isms built into them.

* List at least three possible abuses of this technology that you can think of:

1. Political reasoning on how rights are to be distributed through isms
2. People can use this technology to separate beliefs about people
3. People can use this technology to guilt trip people

[DeepFakes](https://www.youtube.com/watch?v=dMF2i3A9Lzw)

* Outline the problem in a single statement:

Photos can be altered to cause the truth to be altered.

* What ethical barriers does this technology cross?

This crosses the fact that people can be changed online whether they like it or not.

* List at least three possible abuses of this technology that you can think of:

1. People can alter the truth shown in pictures and videos
2. Fake videos in the adult sector
3. Altering politicians can cause different politics then intended

[Is AI Dangerous?](https://www.youtube.com/watch?v=R_5sAburz5Q)

* Outline the problem in a single statement:

Can AI kill us all?

* What ethical barriers could this technology cross?

This crosses the fact that AI can become self aware allowing us to possibly be threatened.

* How can design philosophy of an AI mitigate the risks discussed in this video?

If you design humans into AI allowing us to survive. If we keep the boundaries on AI then it could diminish the risks greatly. If we slow down on the technology slightly then we can focus on other ideas such as curing cancer over trying to achieve general AI. If we focus on trying to survive then we can start by eliminating bias between us and AI allowing the AI to be unbiased. Our ethical programming can be programmed into it by restricting the ideas we don’t believe. If we train the AI to better its isms then we can help our society’s beliefs on isms along with helping a better general AI form.

Optional Final Activity:

[AI for Good](https://www.youtube.com/watch?v=vgUWKXVvO9Q)

Create an AI code of ethics. What are the fundamental rules of ethics that all AIs should adhere to in order to produce the best future for humanity? Your code should be in a specific order, be multipurpose(not just one kind of AI), and include brief justifications.