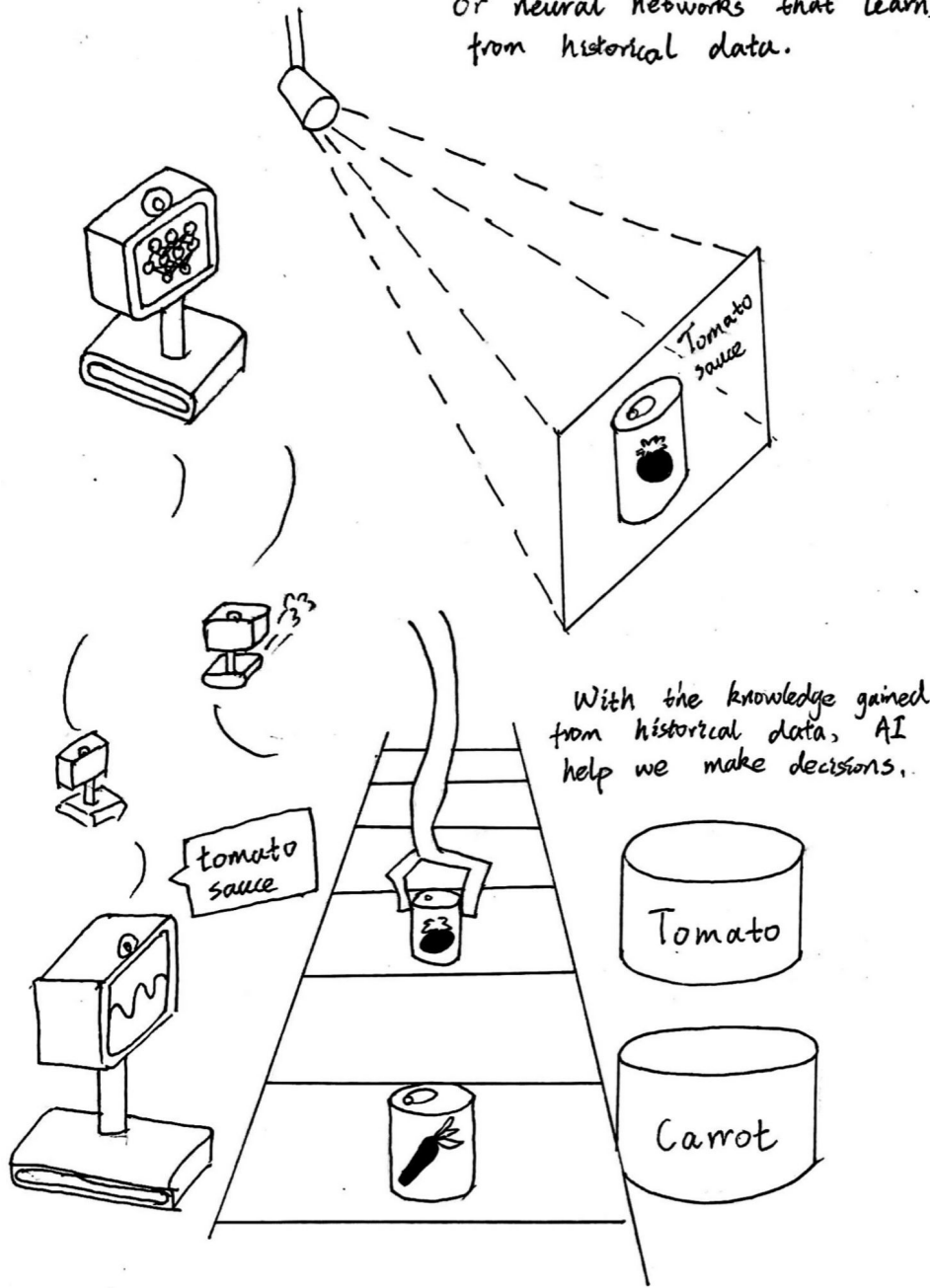


AI is a set of algorithms or neural networks that learns from historical data.

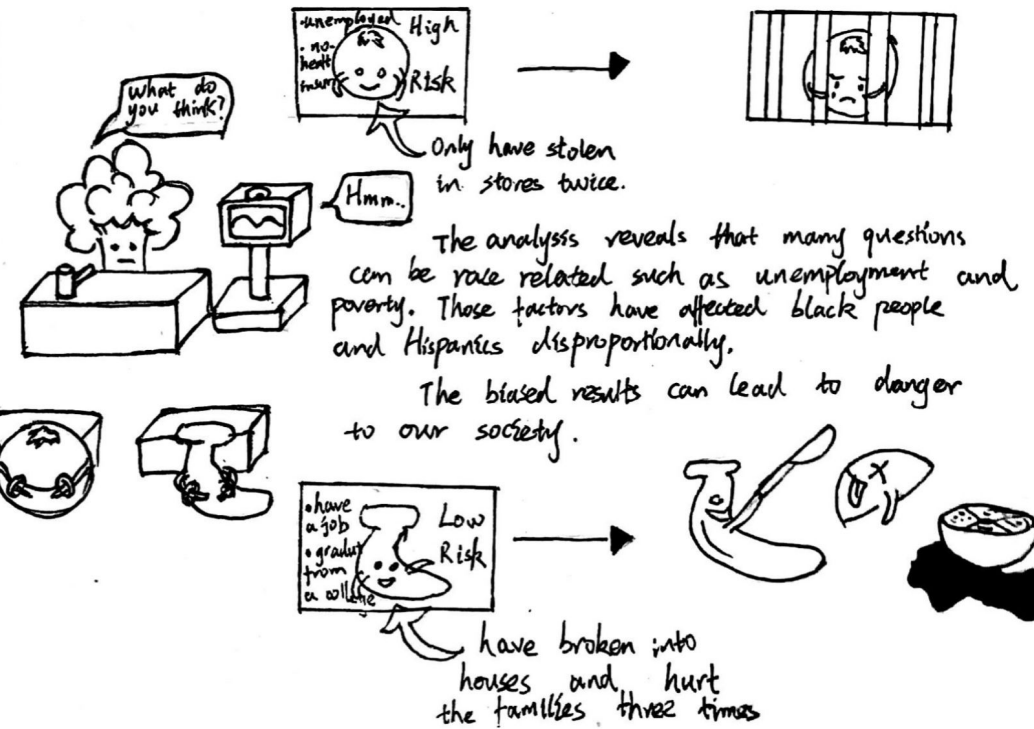


When AI helps us make decisions, we see the world through the AI. This image can easily be biased since we live in a biased society

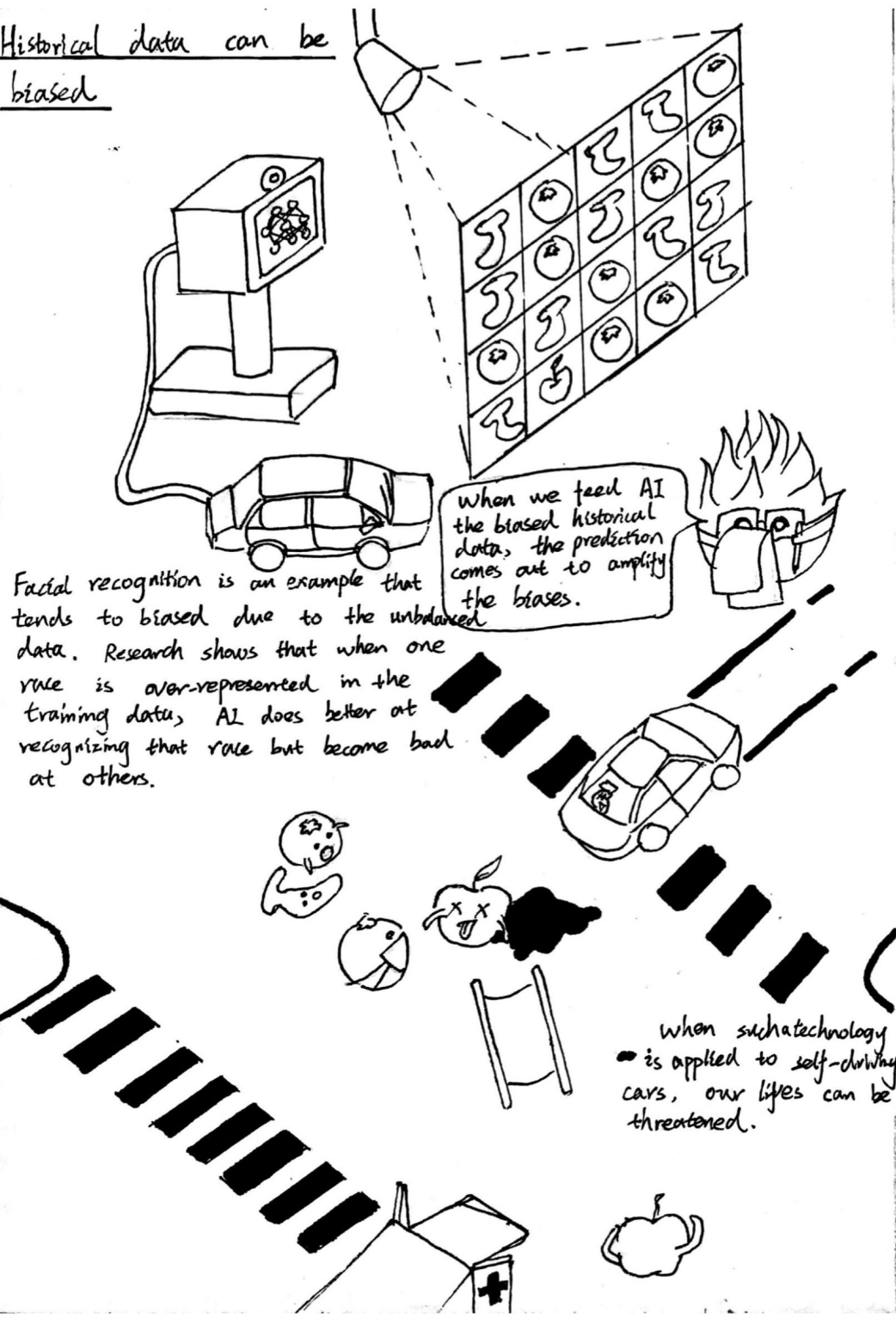


Algorithm design can be biased.

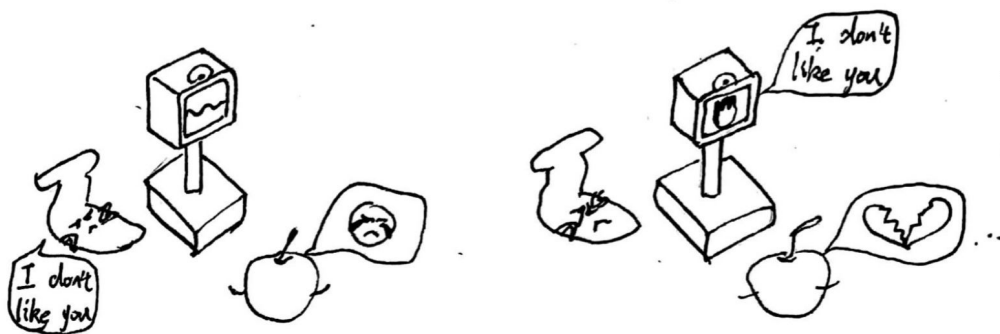
Criminal assessment is utilized to help the judge decide the sentence. Even though the algorithm does not ask racial related questions, the results tend to mislabel people of color as high risk.



Historical data can be biased

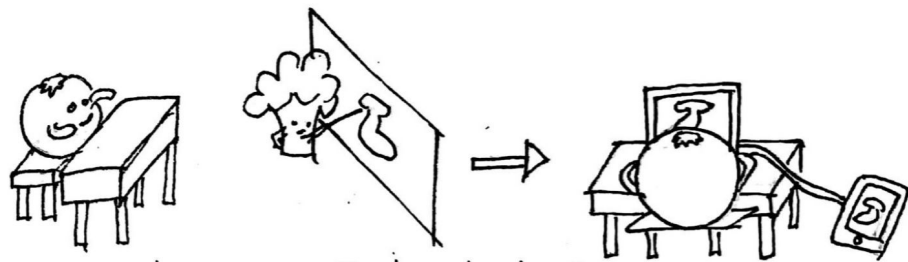


Facial recognition is an example that tends to be biased due to the unbalanced data. Research shows that when one race is over-represented in the training data, AI does better at recognizing that race but become bad at others.



AI biases originate from the biases in our society. Without the careful consideration, AI amplifies the existing biases and exacerbate.

On the other hand, the lack of relevant education causes such phenomena to continuously appear and lead to discrimination towards marginalized groups.



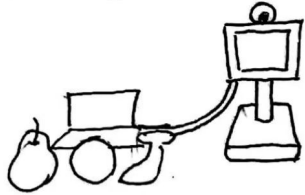


To combat the biases in AI, we need to incorporate Data Ethics in every step.

Data Ethics

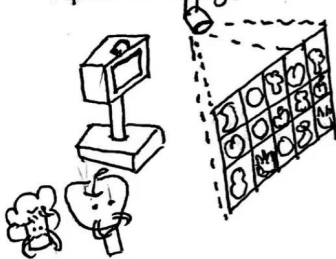


Design

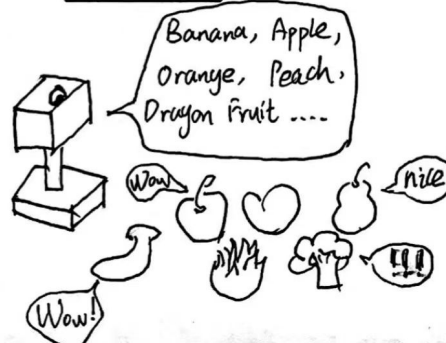


Data Ethics refer to more than data itself. It is a general term that includes every step of development of any new technologies that use statistical data.

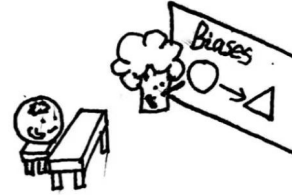
Training



Evaluation



Lecture



Experiment

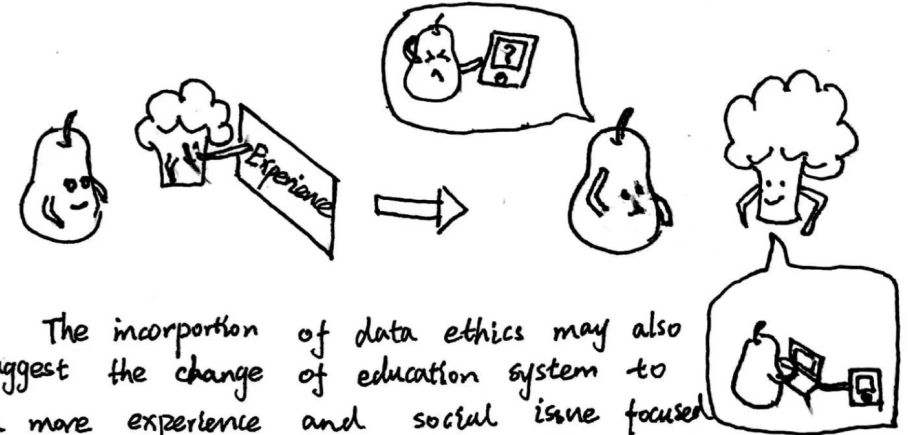


Profession

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| 0 | 0 | 0 | 0 | 0 | 0 |



To eliminate biases in AI, we need to include data ethics as a part of the principle of computer science education so that it comes naturally during creation.



The incorporation of data ethics may also suggest the change of education system to a more experience and social issue focused one.

With Data Ethics, we can see a
fair image of the world through AI!

