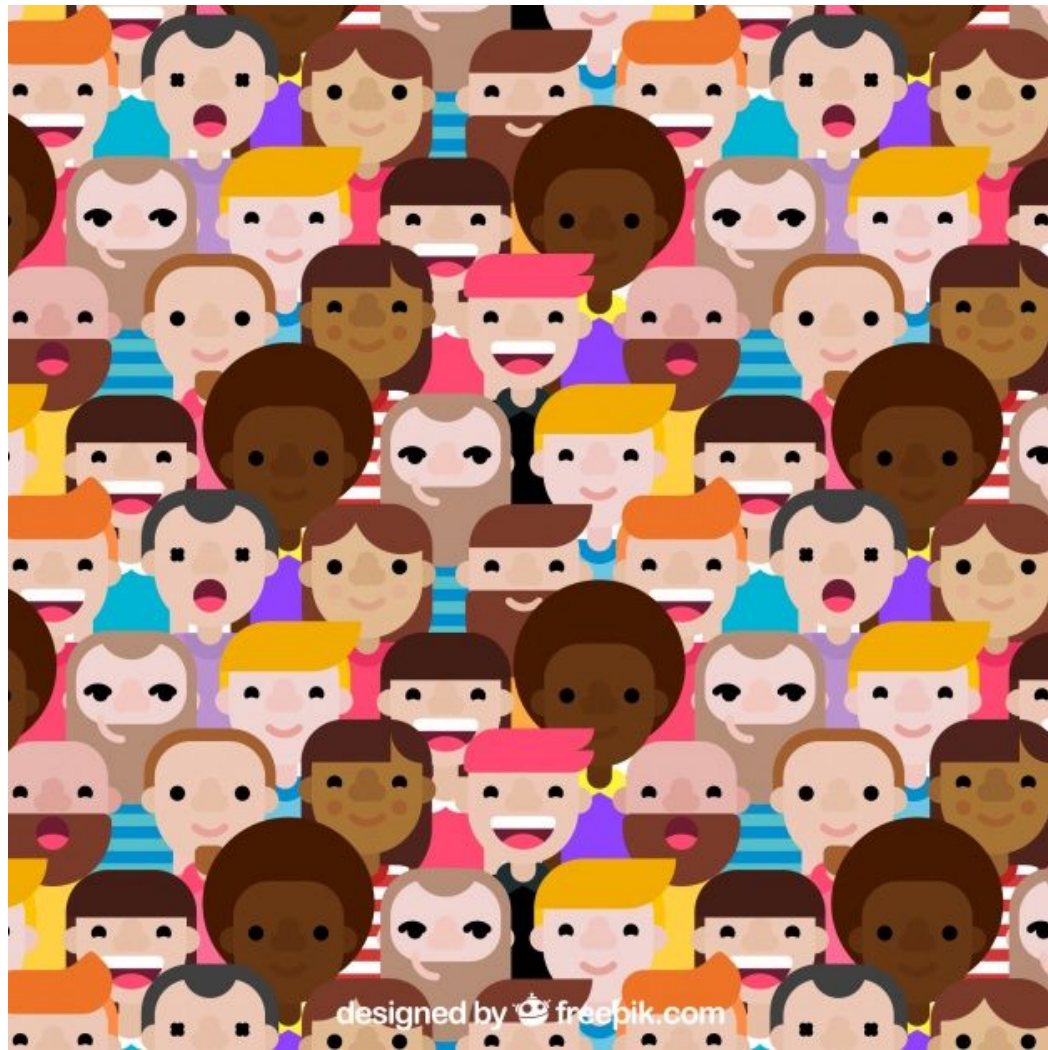


# Ethical Data Science



Getting Data





Population

Random sample





# Informed Consent

## Individuals know:

- how their data will be used
- any risks or benefits
- of any possible consequences

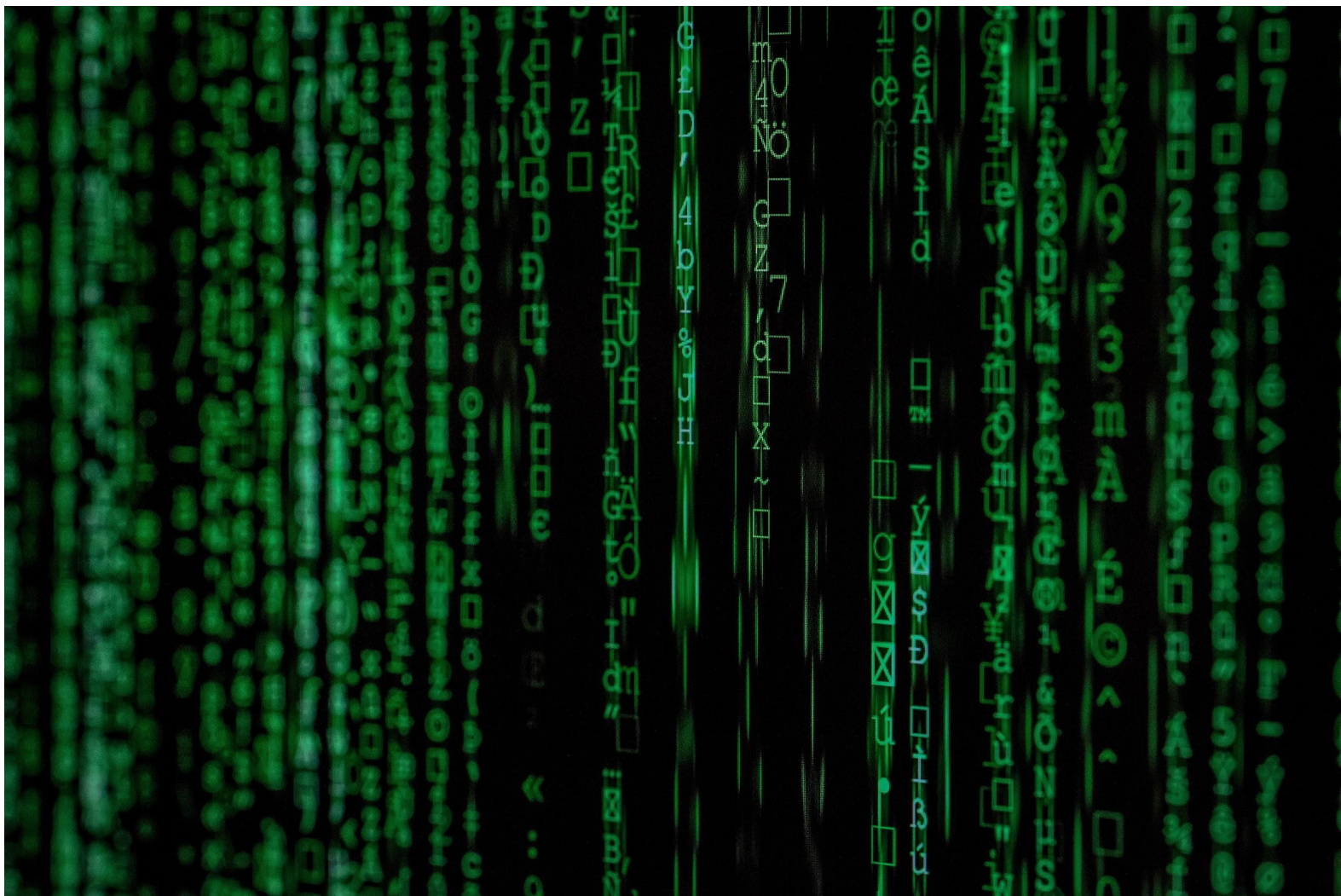






**Informed Consent**  
can be withdrawn  
at any time.

Individual's data  
must then be  
removed from  
dataset.

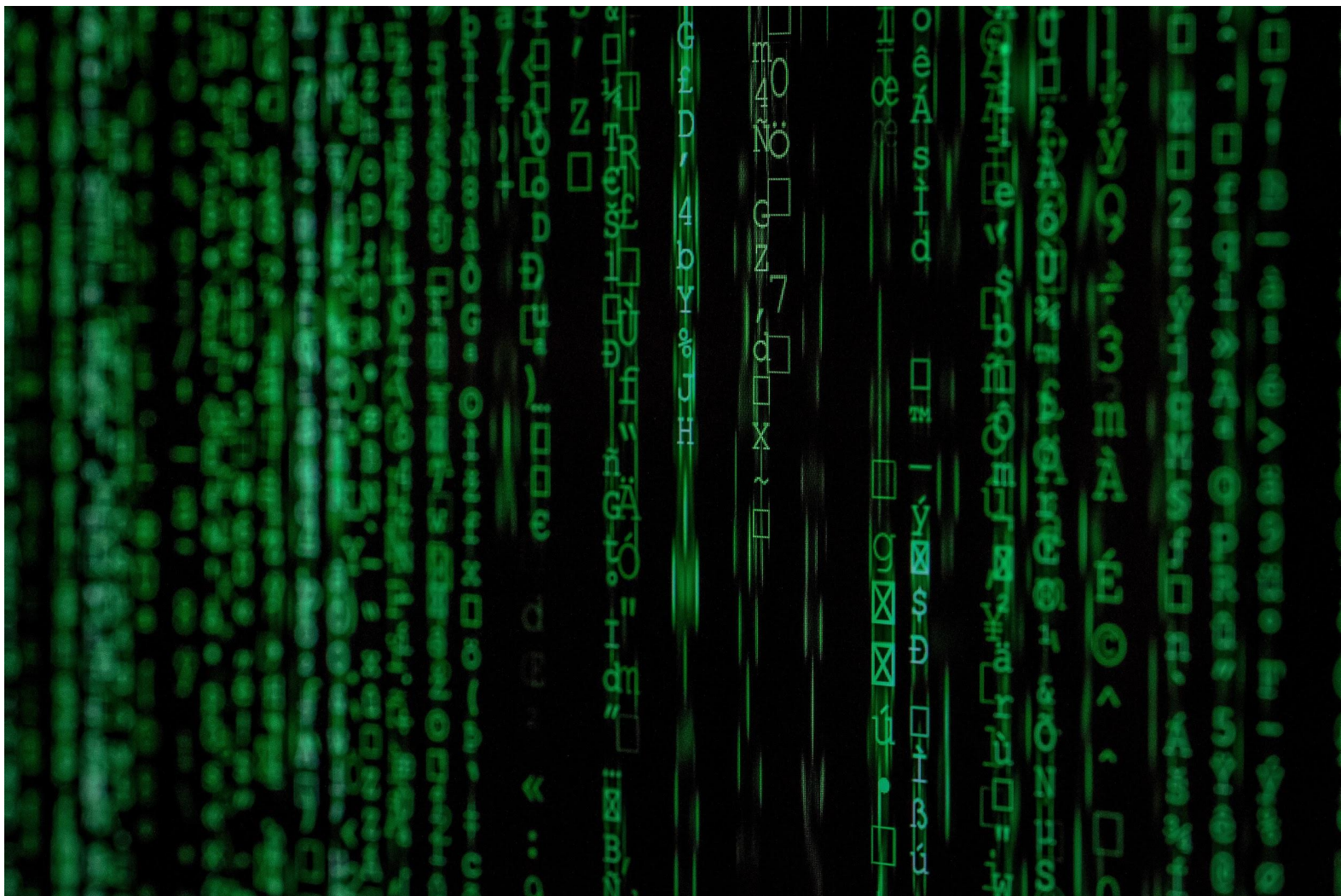


Before sharing the results of a project, be sure:

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1. You've considered bias and ensured your conclusions are fair.
2. You've checked for mistakes.
3. Your work can not be used to harass people, especially minorities, in any way.
4. Your analysis is independent of your opinion about the specific problem you're trying to solve using data.





# Data Science Ethics Checklist:

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- ☐ Is your team biased?
- ☐ Data collection avoid sampling bias?
- ☐ Are the data biased?
- ☐ Informed consent obtained for all participants?
- ☐ Can one's data be removed on request?
- ☐ Does our analysis discriminate?
- ☐ Is our analysis transparent?
- ☐ What are the negative or unintended consequences of our findings?
- ☐ Do we have a plan to check for biases going forward and update our algorithm?

