

Ethical Data Science



Getting Data





Population

Random sample





Informed Consent

Individuals know:

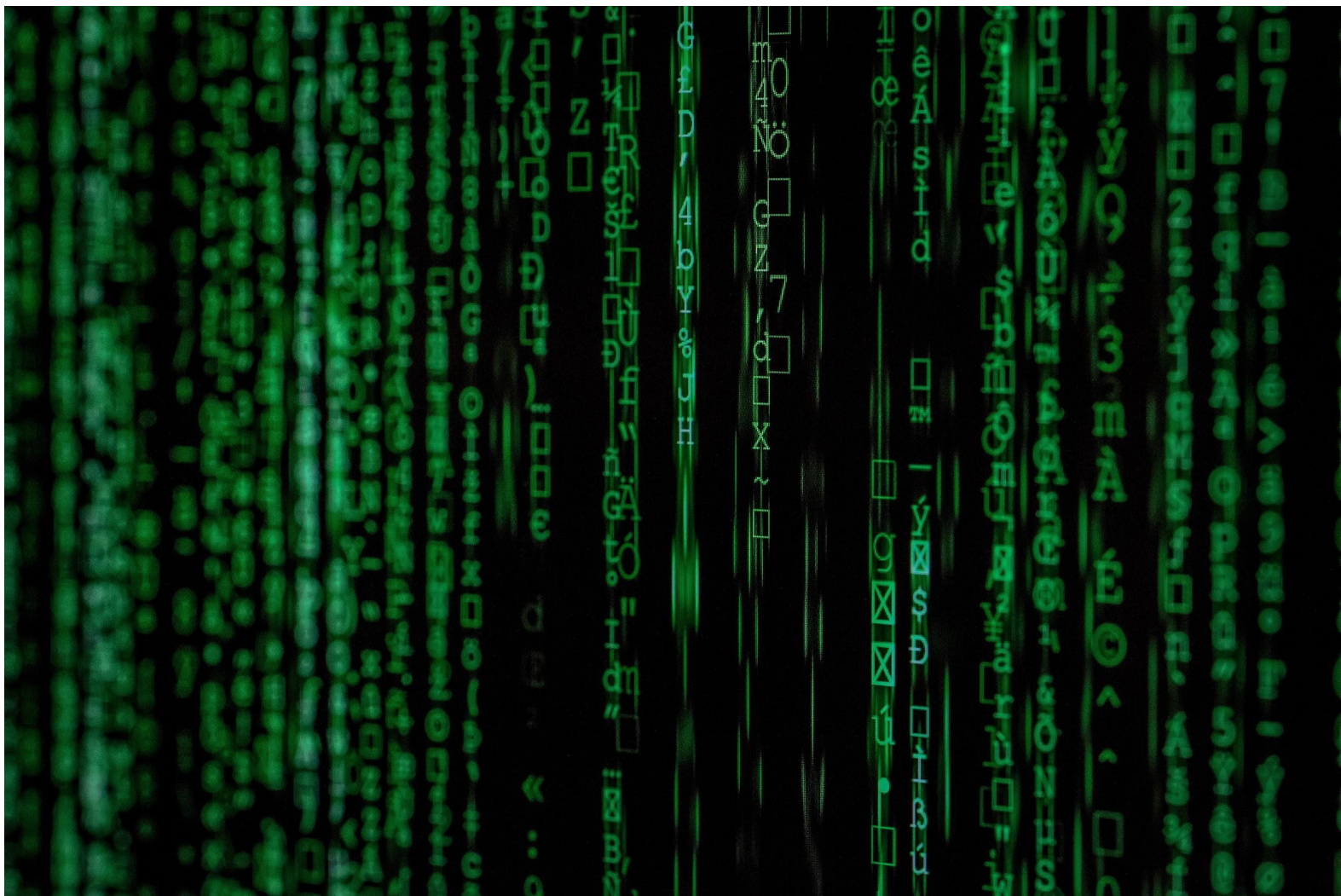
- how their data will be used
- any risks or benefits
- of any possible consequences





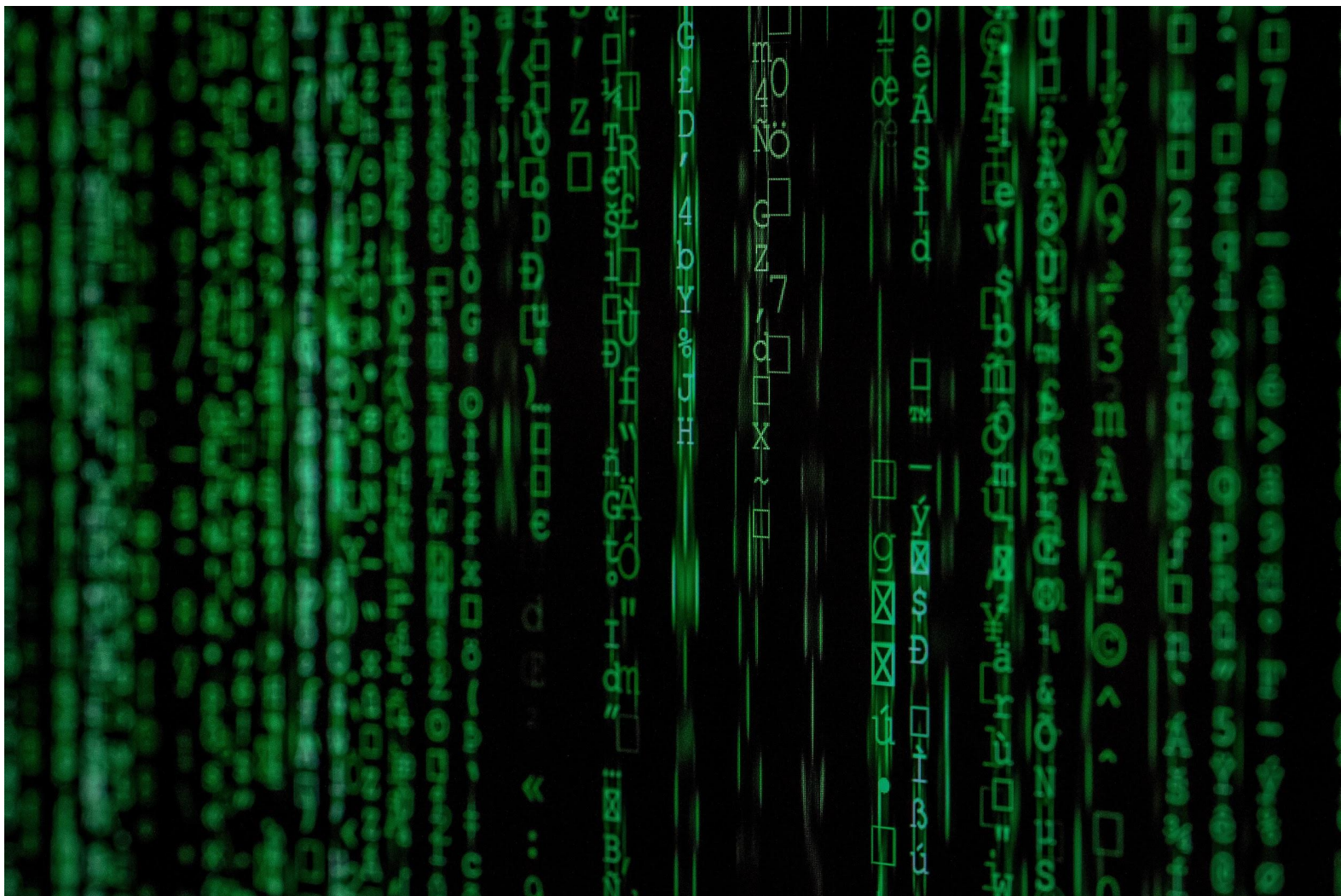
Informed Consent
can be withdrawn
at any time.

Individual's data
must then be
removed from
dataset.



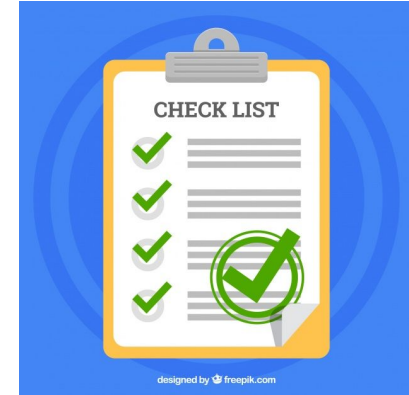
Before sharing the results of a project, be sure:

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.

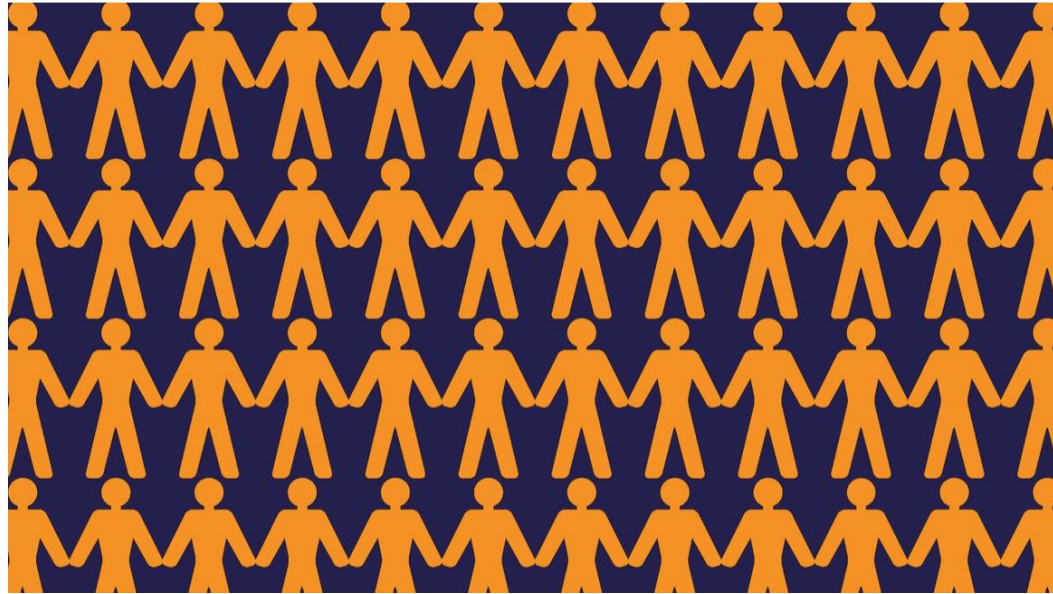


Data Science Ethics Checklist:

- ☐ 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?



COURTS ARE USING AI TO SENTENCE CRIMINALS. THAT MUST STOP NOW



Google Is Helping the Pentagon Build AI for Drones

Kate Conger and Dell Cameron

3/06/18 10:15am • Filed to: GOOGLE ▾

🔥 93.7K
💬 70
★ 3



Graphic: Jim Cooke, Photo: Getty

Amazon Pushes Facial Recognition to Police. Critics See Surveillance Risk.



Amazon promotes its facial recognition technology on the company's website, saying that the service can track people in a video even when their faces are not visible. Amazon