

Biases and ethics

- ✦ Historically, minorities had lower chances of getting loans, mortgages, etc.
- ✦ This is reflected in the historical data
- ✦ This data is used to train ML models
- ✦ Now the historical racial bias is codified, since the models will make predictions based on patterns it saw in the training data
- ✦ Similar issue with clinical trials
 - ✦ Most studies were done on middle aged white men
 - ✦ Do these data apply to women, children, other ethnicities?
- ✦ Huge issue recognized in data ethics



Biases and ethics

- ✧ aka, we like shiny new things
- ✧ Historical bioinformatic data incompatible with currently produced data
- ✧ We have lost the opportunity to use this large corpus of data
 - ✧ Billions of dollars in international funding
- ✧ We can't tell how these data relate to current findings easily

