

Homer Strong

Director of Data Science Cylance

Colt Blackmore

Director of Product Management Cylance

GENERATIONS OF ALL IN SECURITY





AI IS WHATEVER HASN'T BEEN DONE YET.

—DOUGLAS HOFSTADTER









link missing or broken

AGENDA

- I. INTRODUCTION
- II. THE ART OF DATA CURATION
- III. MAN VERSUS MACHINE
- IV. SECURING SECURITY SYSTEMS
- V. CONCLUSION

LEARN ...

- I. The present and future of Al security technologies
- II. How to evaluate the maturity of Al systems
- III. The risks and opportunities of AI for security

I. THE ART OF DATA CURATION

or: garbage in, garbage out



security is a problem of

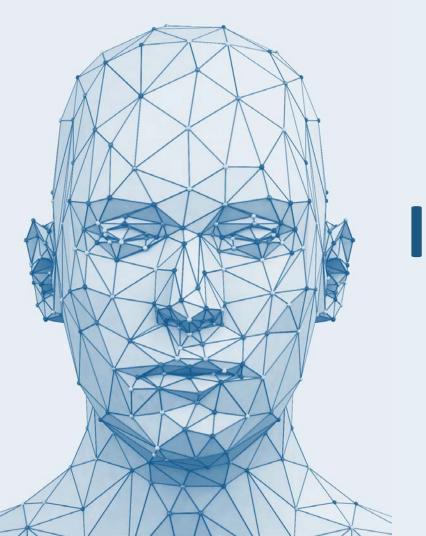
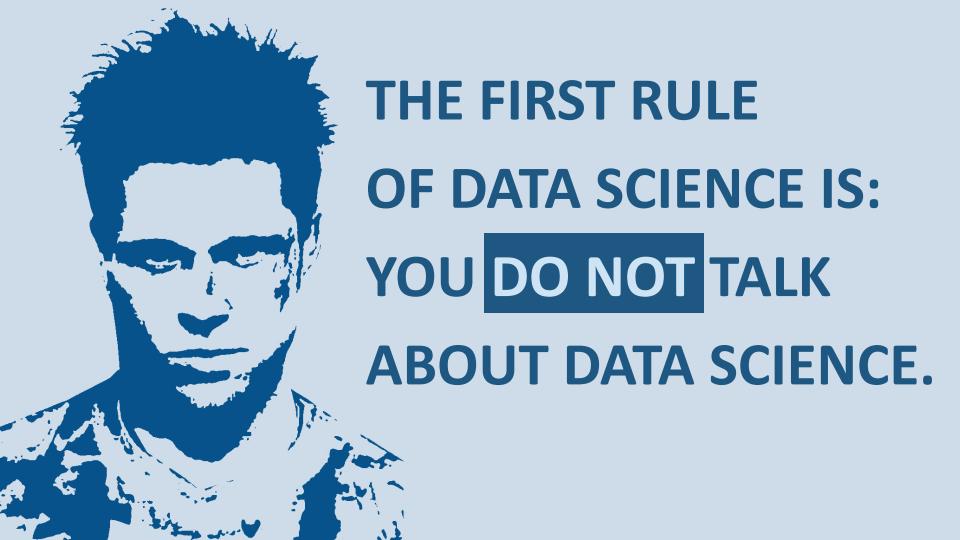
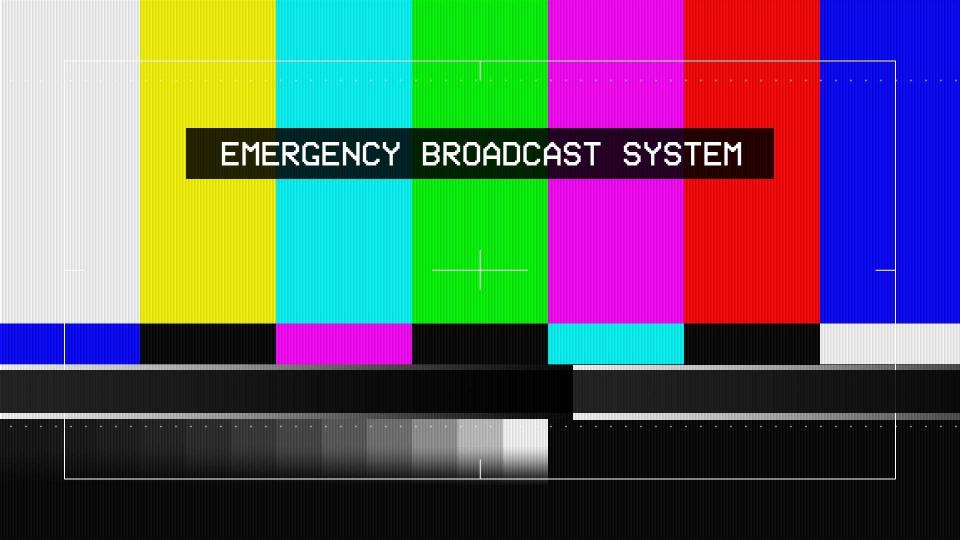


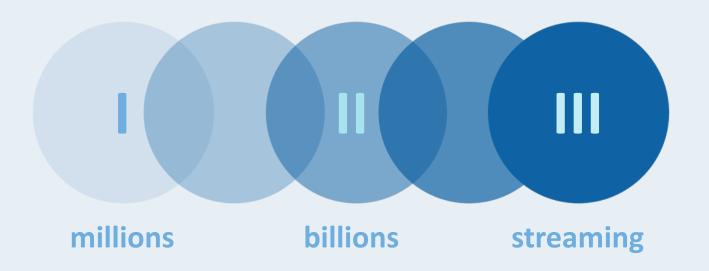
IMAGE RECOGNITION



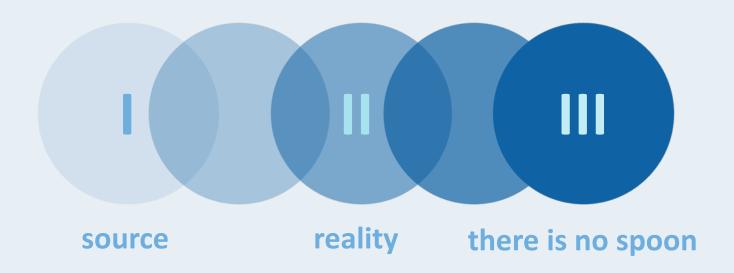
VirusTotal



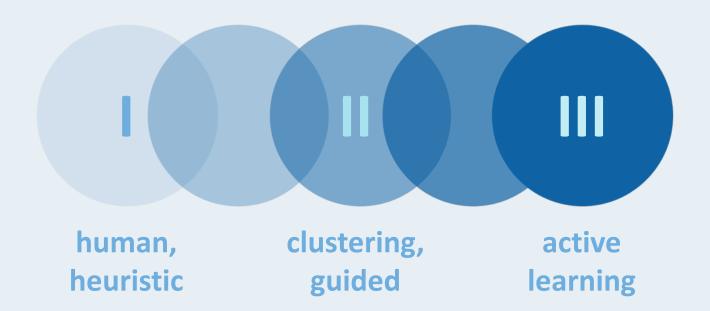
GENERATIONS: VOLUME



GENERATIONS: DIVERSITY



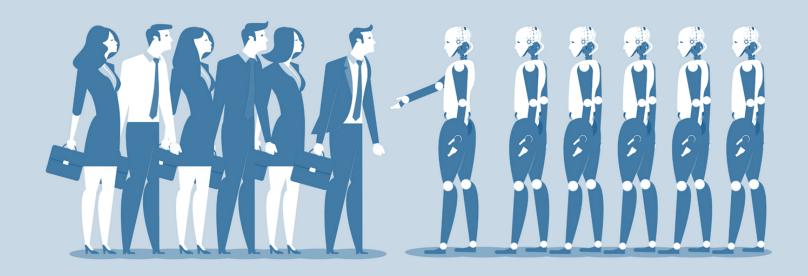
GENERATIONS: HYGIENE

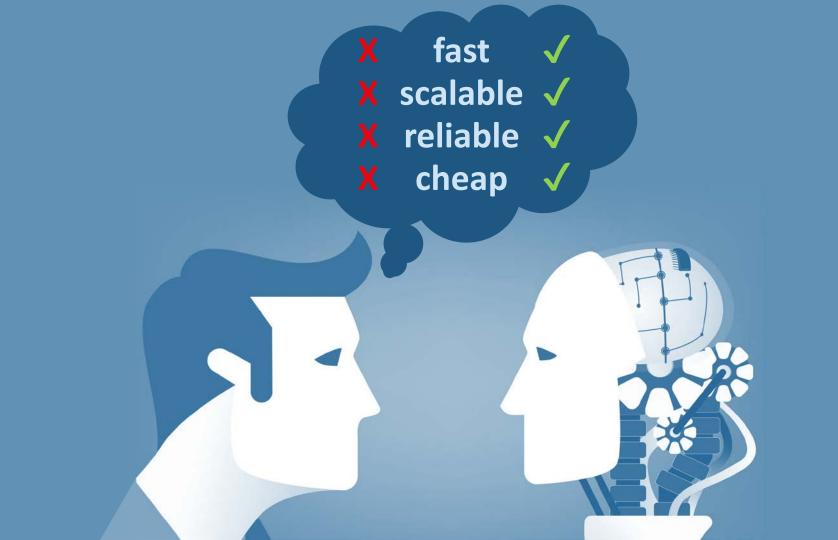


II. MAN VERSUS MACHINE

or: better, stronger, faster

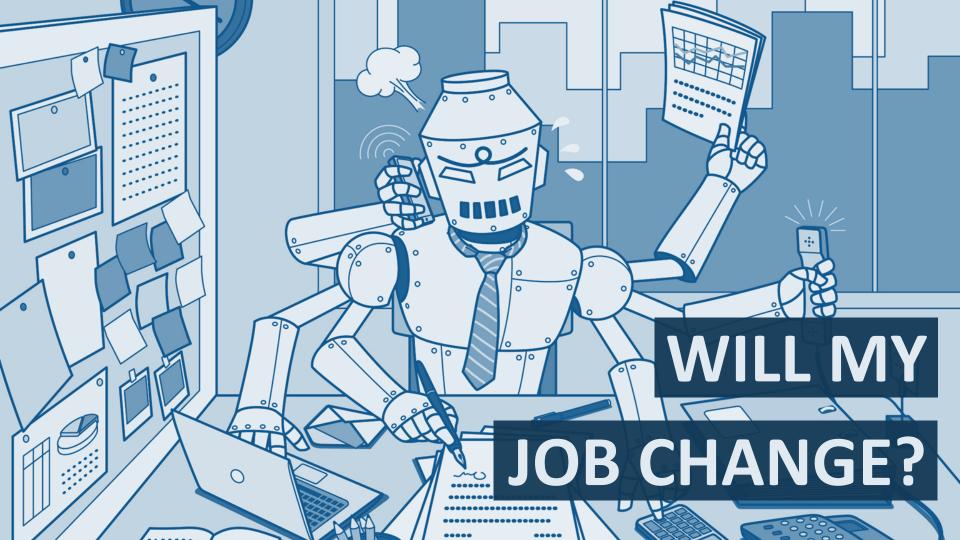
(we have the technology)

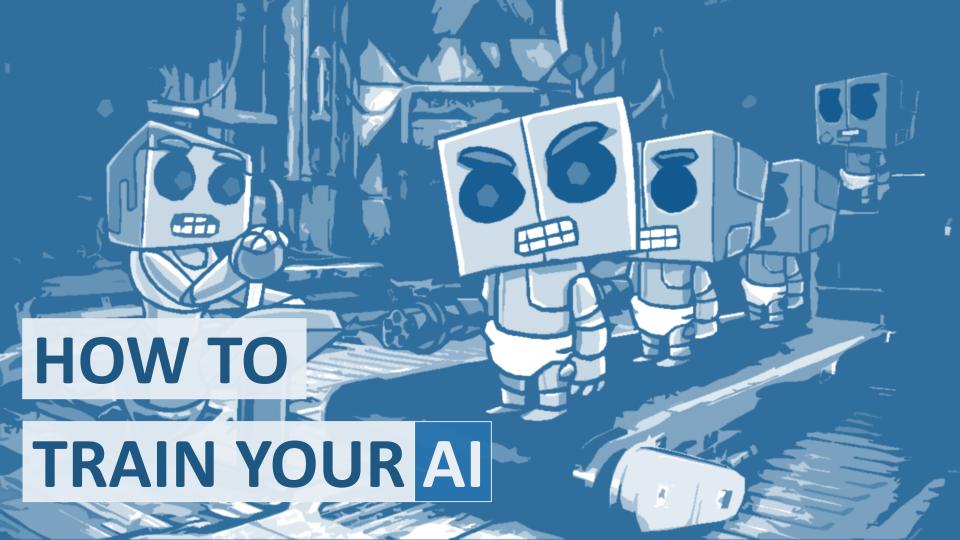








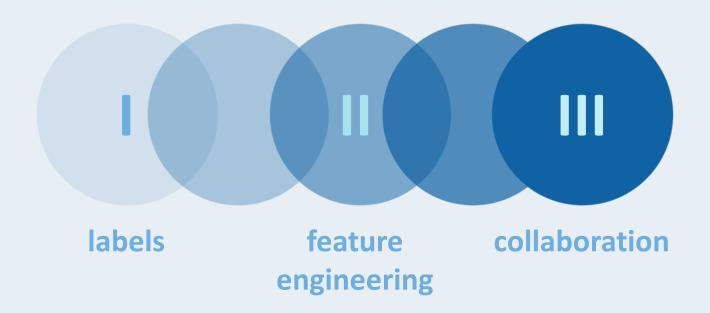




WHAT WE HAVE HERE IS A FAILURE TO COMMUNICATE.

-MAJOR PAYNE

GENERATIONS: All SYMBIOSIS



III. SECURING SECURITY SYSTEMS

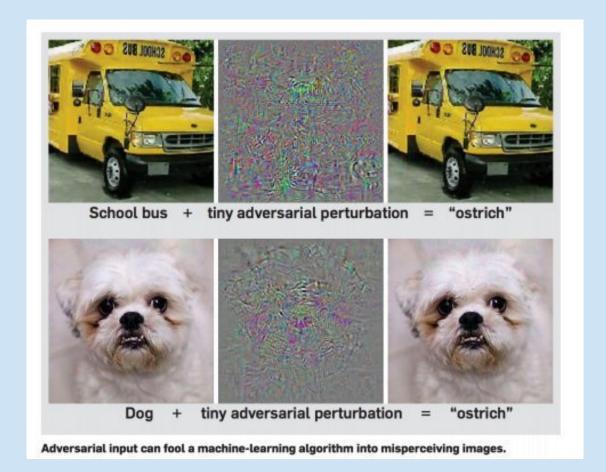
or: who watches the watchers?



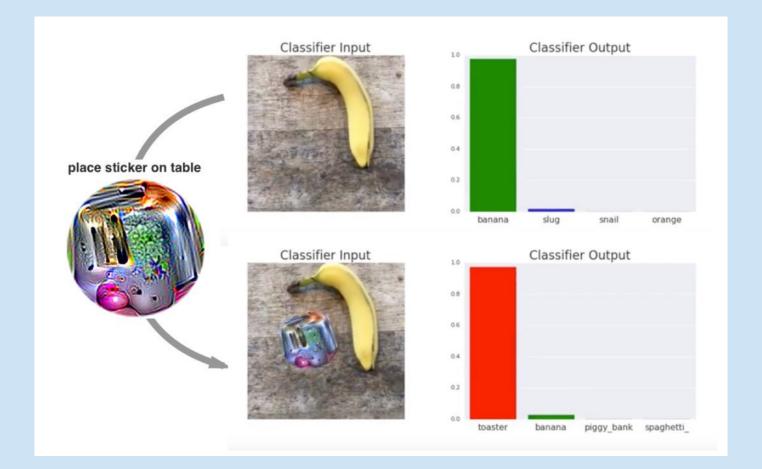
FLAVORS OF ATTACK



MASK: OSTRICH



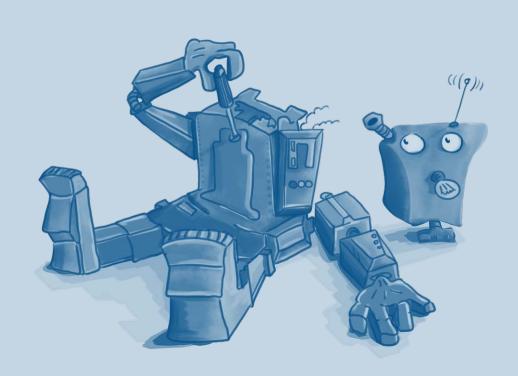
PATCH: TOASTER



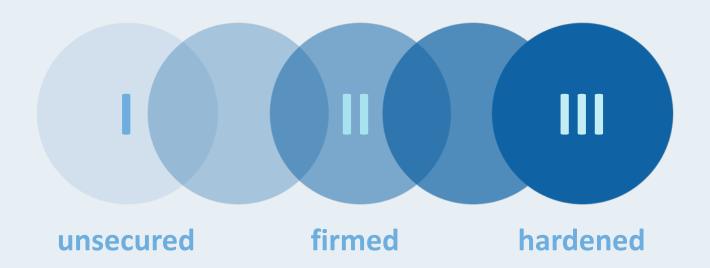
TOY: TURTLE



IS SECURITY AI BROKEN?



GENERATIONS: SECURING AI



CONCLUSION: ASK ...

- I. Is the model really used to make decisions?
- II. How do you know when the model needs to be retrained?
- III. Who curates data?
- IV. What happens when the model is wrong?
- V. Who are the security experts who reviewed the features?
- VI. Who would notice if there were an attack?

