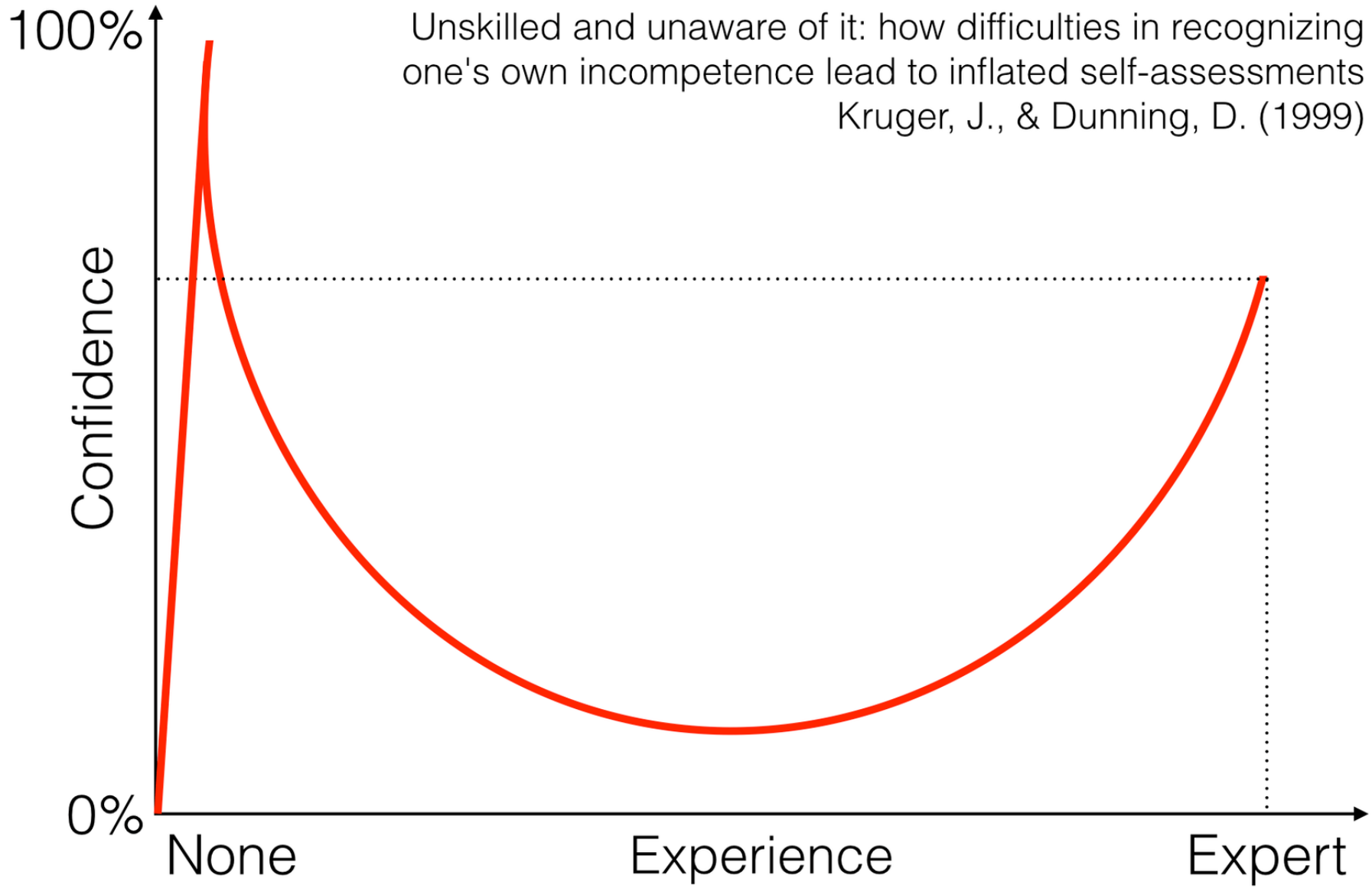
Moving past model.fit()

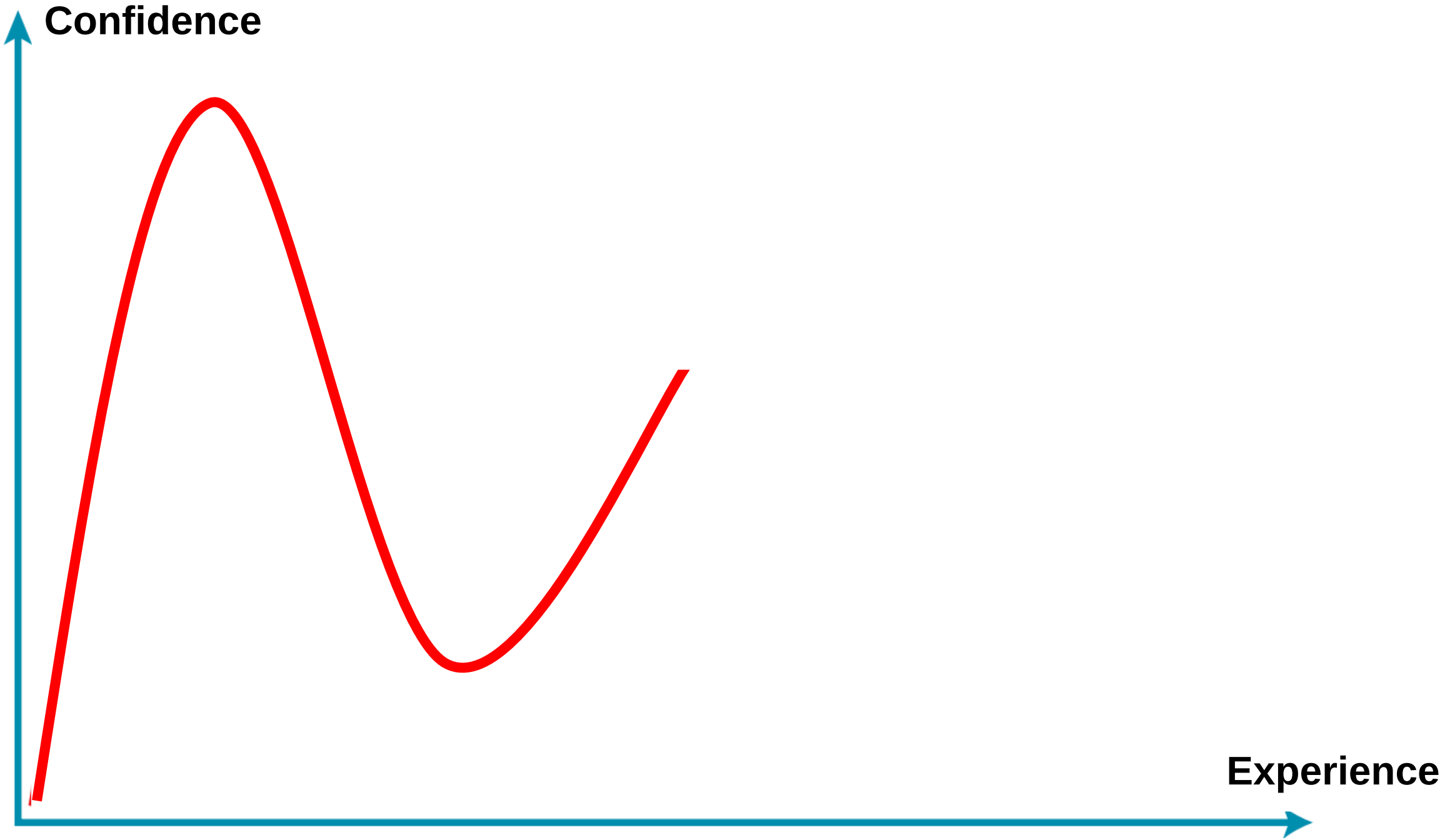
Guy Taylor

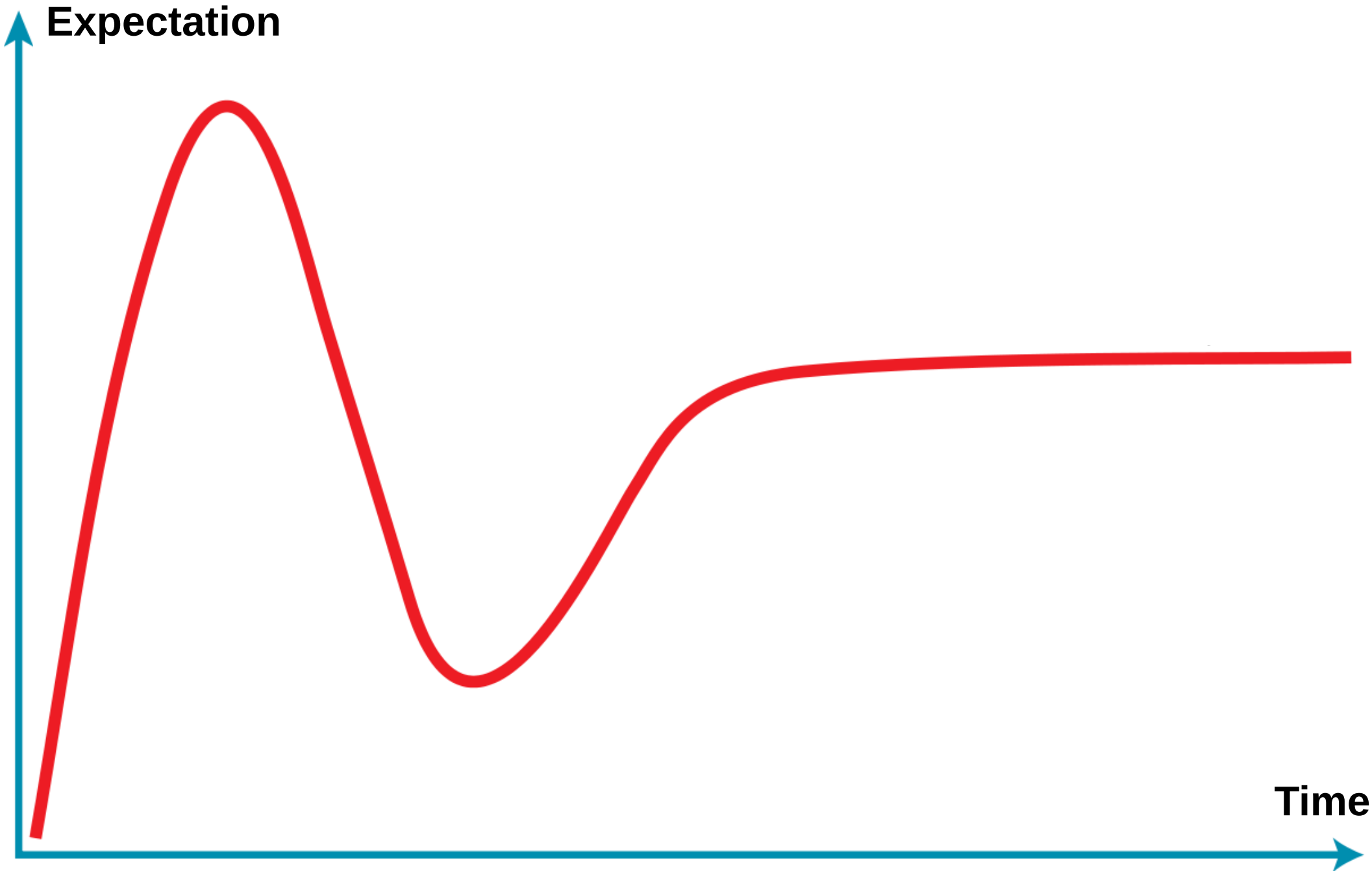
NEDBANK

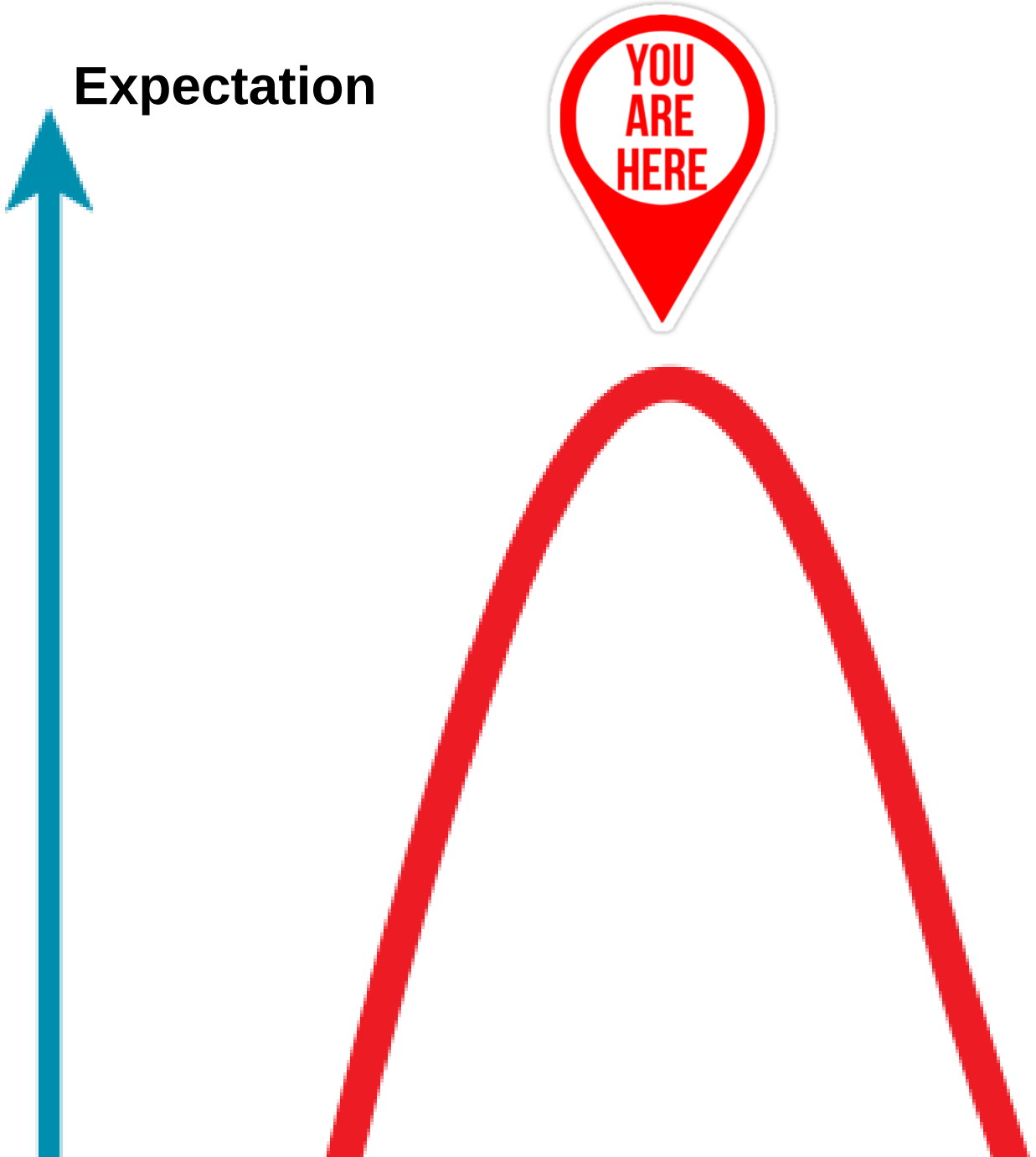
Dunning-Kruger Effect

Unskilled and unaware of it: how difficulties in recognizing one's own incompetence lead to inflated self-assessments
Kruger, J., & Dunning, D. (1999)




Confidence
Experience


Expectation
Time


Expectation
YOU ARE HERE

Harvard Business Review

“The sexiest job of the 21st century”

Python
for Unix and Linux System Administration
Noah Gift & Jeremy M. Jones
O'REILLY

Open jobs asking for analytics skills in 2015

2.3M

Forecast of population with analytics skills by 2018

2.9M

Notes: US data only.
Source: Burning Glass Technologies analysis of 26.9 million US job postings from 2015. McKinsey Global Institute, Big Data: The next frontier for innovation, competition, and productivity (June 2011).

EQT VENTURES
Europe is now
EQT VENTURES
Why businesses fail at machine learning
Cassie Kozyrkov (Twitter: @quaesita)
Chief Decision Scientist
Google Cloud
experience the new future
Capgemini
APPLIED INNOVATION EXCHANGE

ZERO

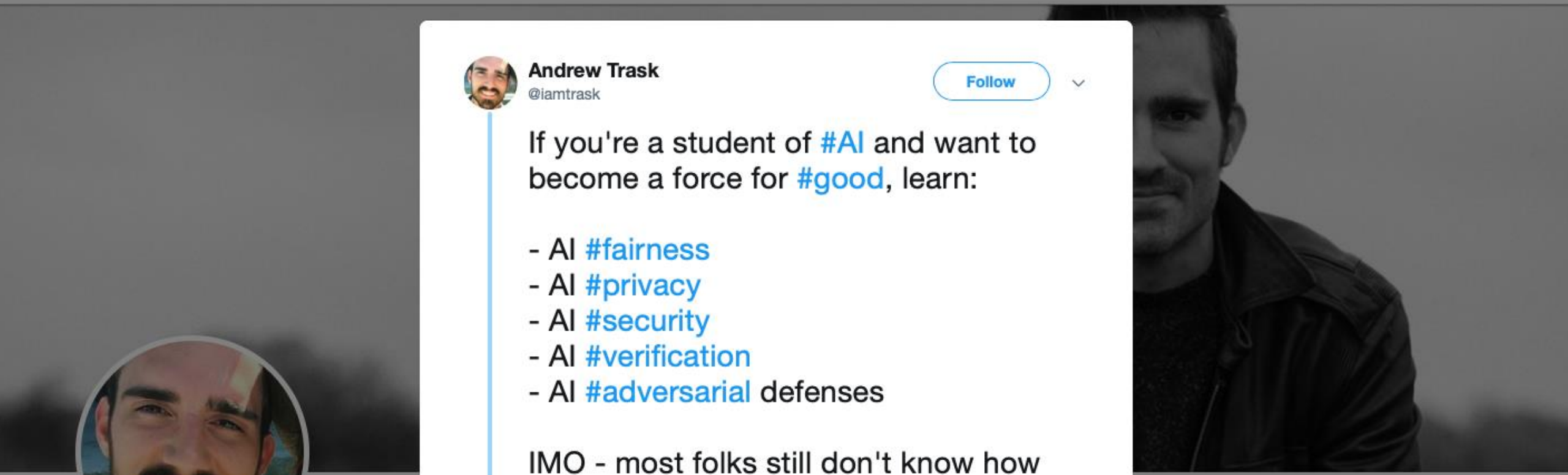
It’s not just about the

model

it’s about the

Data.

(but it’s also about everything else)



Andrew Trask
@iamtrask

Leader of @OpenMinedOrg, Research Scientist @DeepMindAI, PhD Student @UniofOxford, Author @ManningBooks, Instructor @Udacity, Husband, Opinions my own

Oxford, UK

manning.com/books/grokking...

Andrew Trask
@iamtrask

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If you're a student of #AI and want to become a force for #good, learn:

- AI #fairness
- AI #privacy
- AI #security
- AI #verification
- AI #adversarial defenses

IMO - most folks still don't know how these fields work

Be the change

(#tutorials in replies 👇)

#100DaysOfMLCode

9:18 am - 2 Mar 2019

455 Retweets **1,440** Likes

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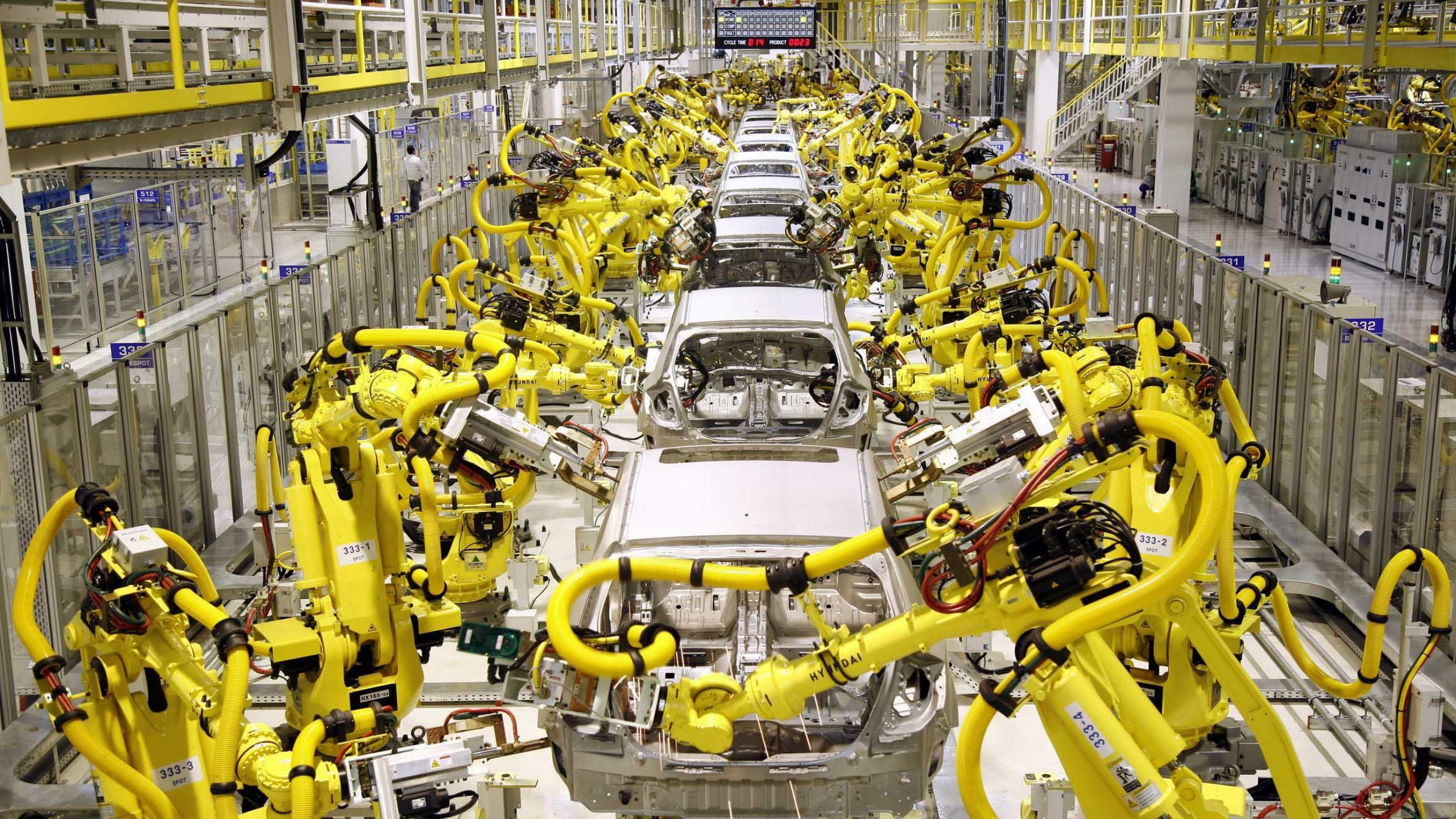
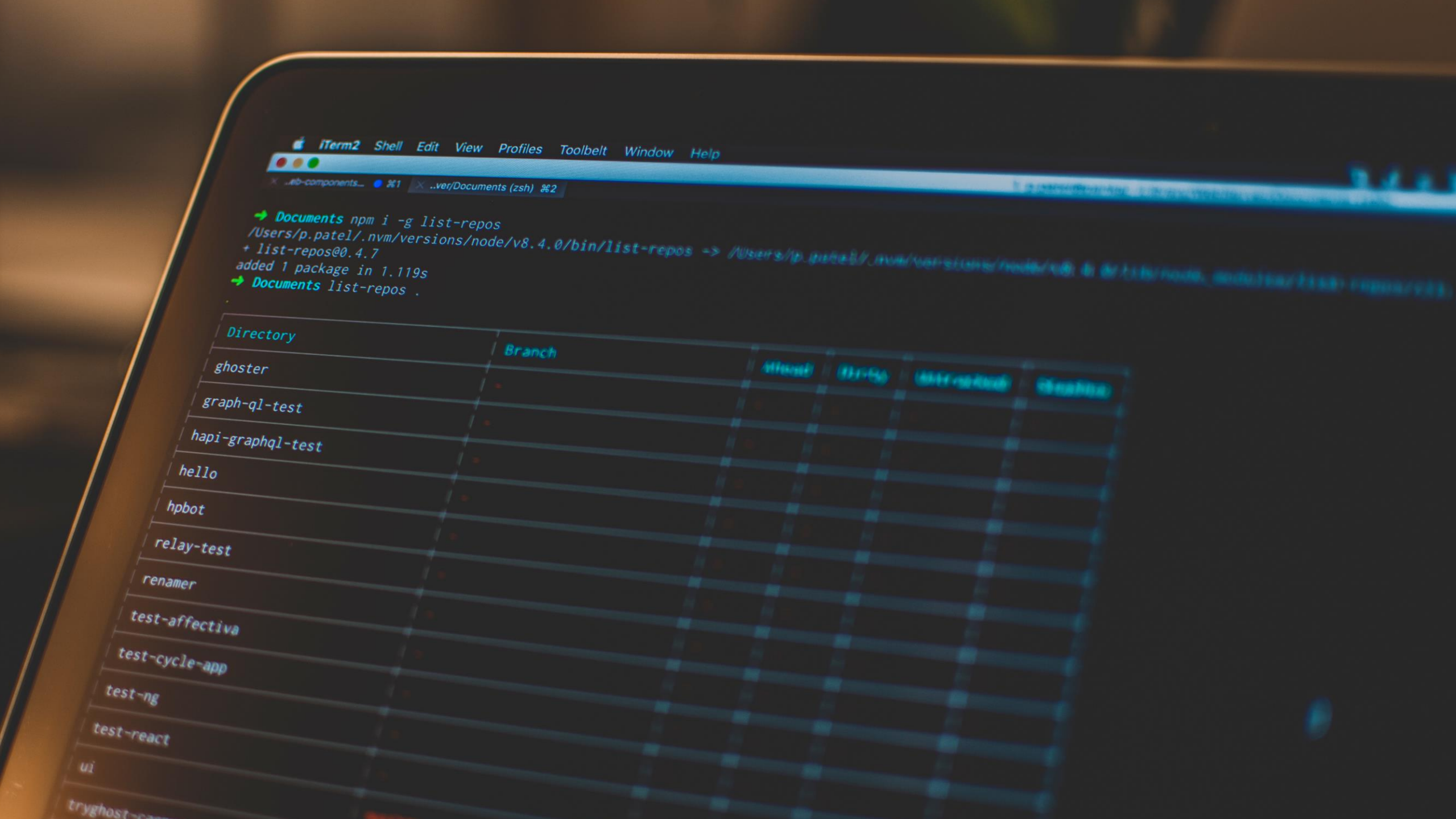

CYCLE TIME 0 14 PRODUCT 0023
333-1
SPOT
333-2
SPOT
333-3
SPOT
333-4
HYUNDAI
HX165-04
ESPOT
512

HYUNDAI
333-2
SPOT
333-4

ZERO

Machine Learning $\neq$ Software Development

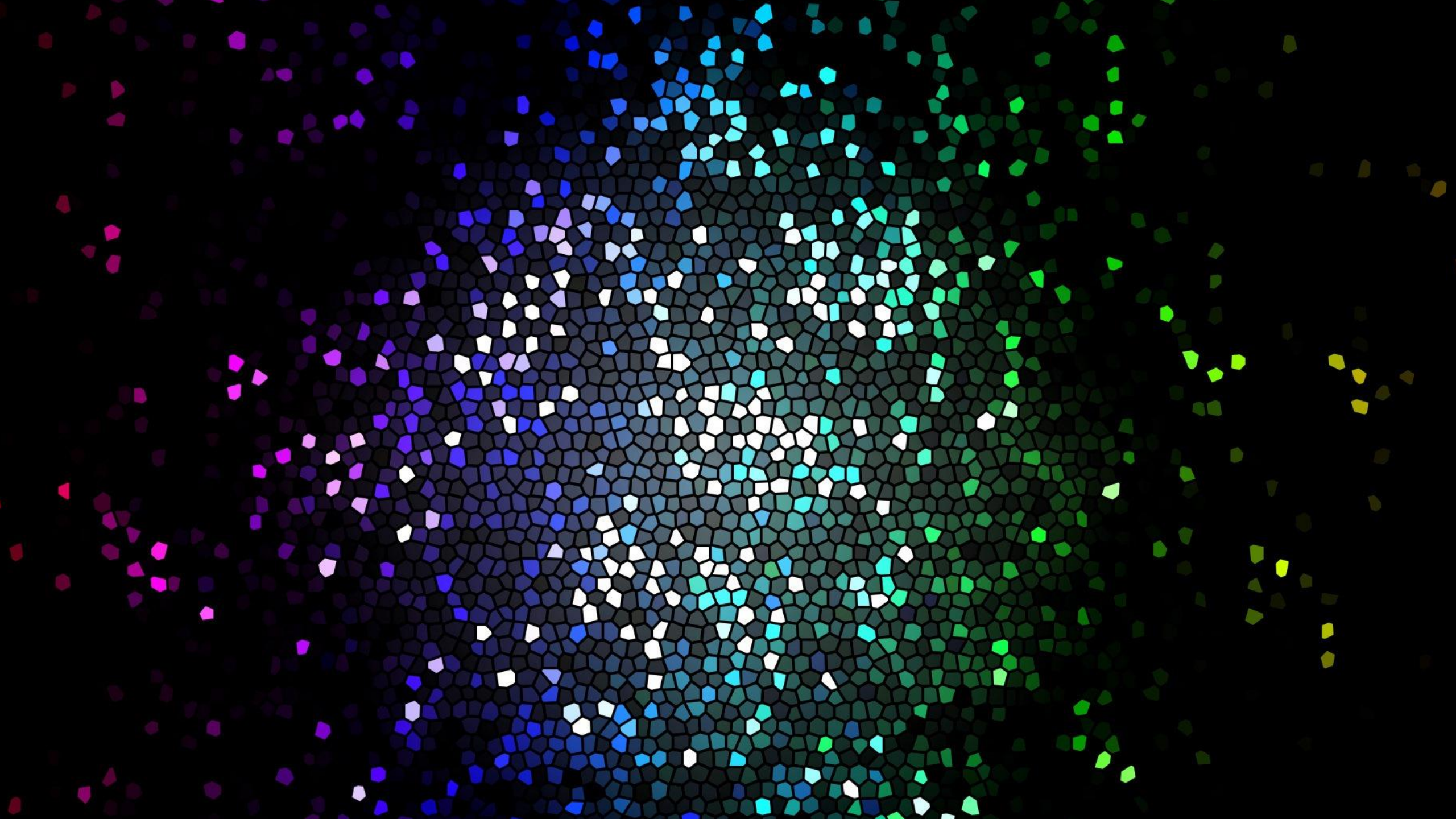
Unknown property 'justify-content', Line 86, Column 13
Sublime Text 2

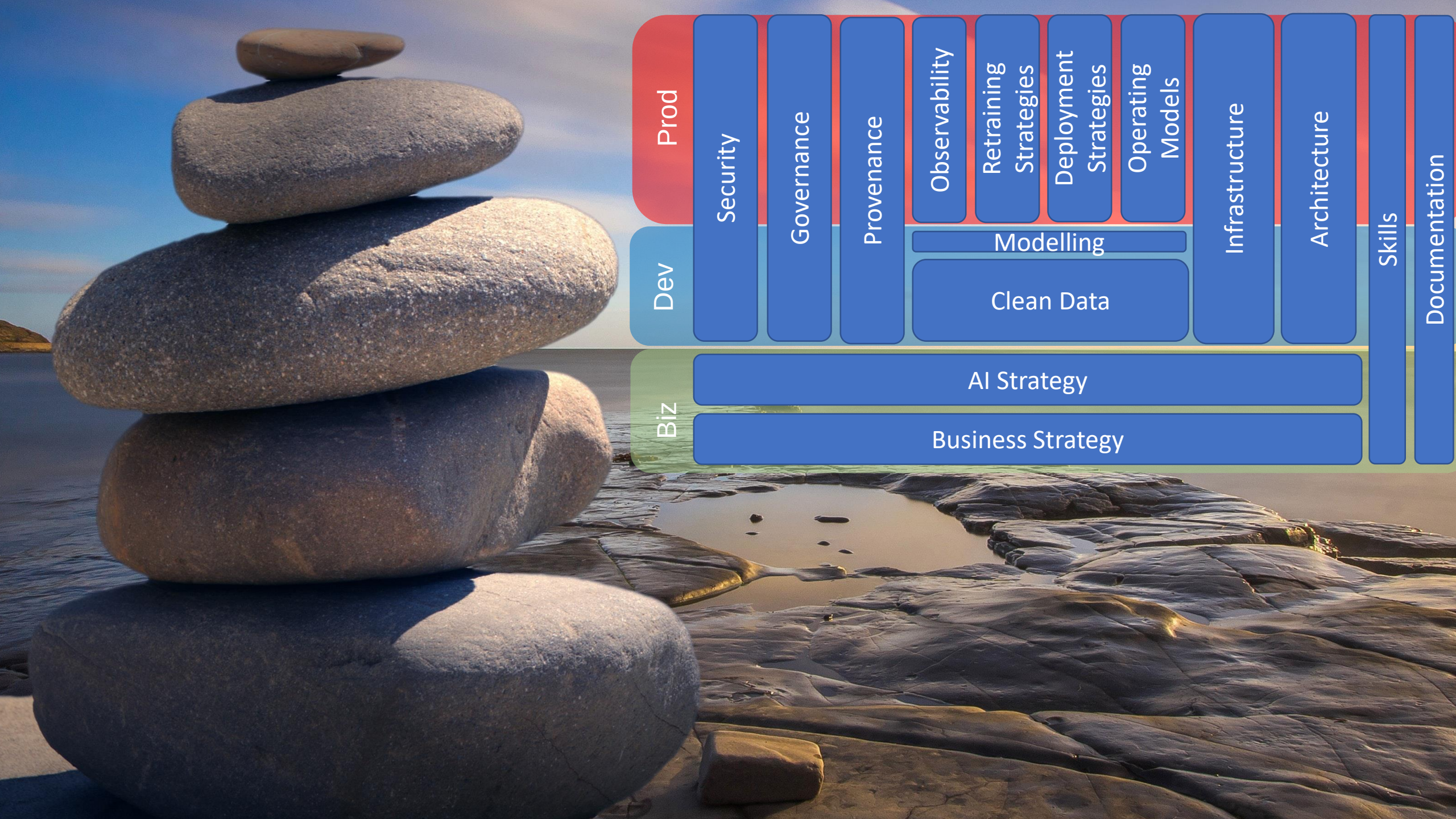

iTerm2 Shell Edit View Profiles Toolbelt Window Help
..ver/Documents (zsh) ⌘2
Documents npm i -g list-repos
/Users/p.patel/.nvm/versions/node/v8.4.0/bin/list-repos -> /Users/p.patel/.nvm/versions/node/v8.4.0/lib/node_modules/list-repos/cli.js
+ list-repos@0.4.7
added 1 package in 1.119s
Documents list-repos .
Directory
Branch
ghoster
graph-ql-test
hapi-graphql-test
hello
hpbot
relay-test
renamer
test-affectiva
test-cycle-app
test-ng
test-react
ui

DevOps

BizSecDataDevScienceGovPrivOps

Ok! Ok!
So what now?




Prod
Dev
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Provenance
Observability
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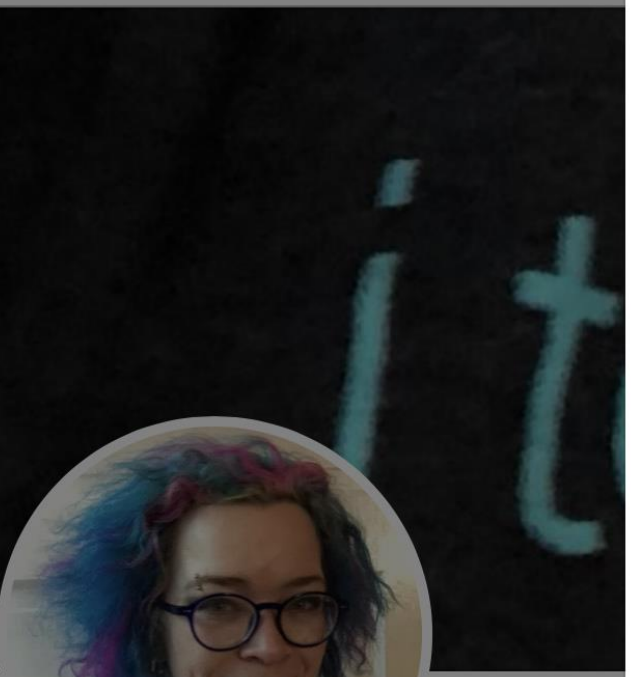

Charity Majors
@mipsytipsy

engineer/cofounder at @honeycombio, prev Parse/Facebook; cowrote Database Reliability Engineering; loves whiskey, rainbows. I test in production & so do you.

San Francisco

honeycomb.io/blog

Joined November 2009

Charity Majors @mipsytipsy · 28 Jul 2017

that's why *instrumentation* is what saves your bacon with massively complex systems. you can't predict what you're going to need to know.

3 16 40

Charity Majors
@mipsytipsy

Follow

and *observable* systems are ones you can fully interrogate. given a pile w millions of needles, can you locate literally every one of them?

2:44 AM - 28 Jul 2017

6 Retweets **13** Likes

4 6 13

Srinivasan Raguraman @sragu · 28 Jul 2017

Replying to @mipsytipsy

Agree. However I have seen people ignore things when it's too much data. Like measuring every method, but not knowing what happened inside

2 1 3

Charity Majors @mipsytipsy · 28 Jul 2017

too much can be as bad as none at all :(

1 1 1

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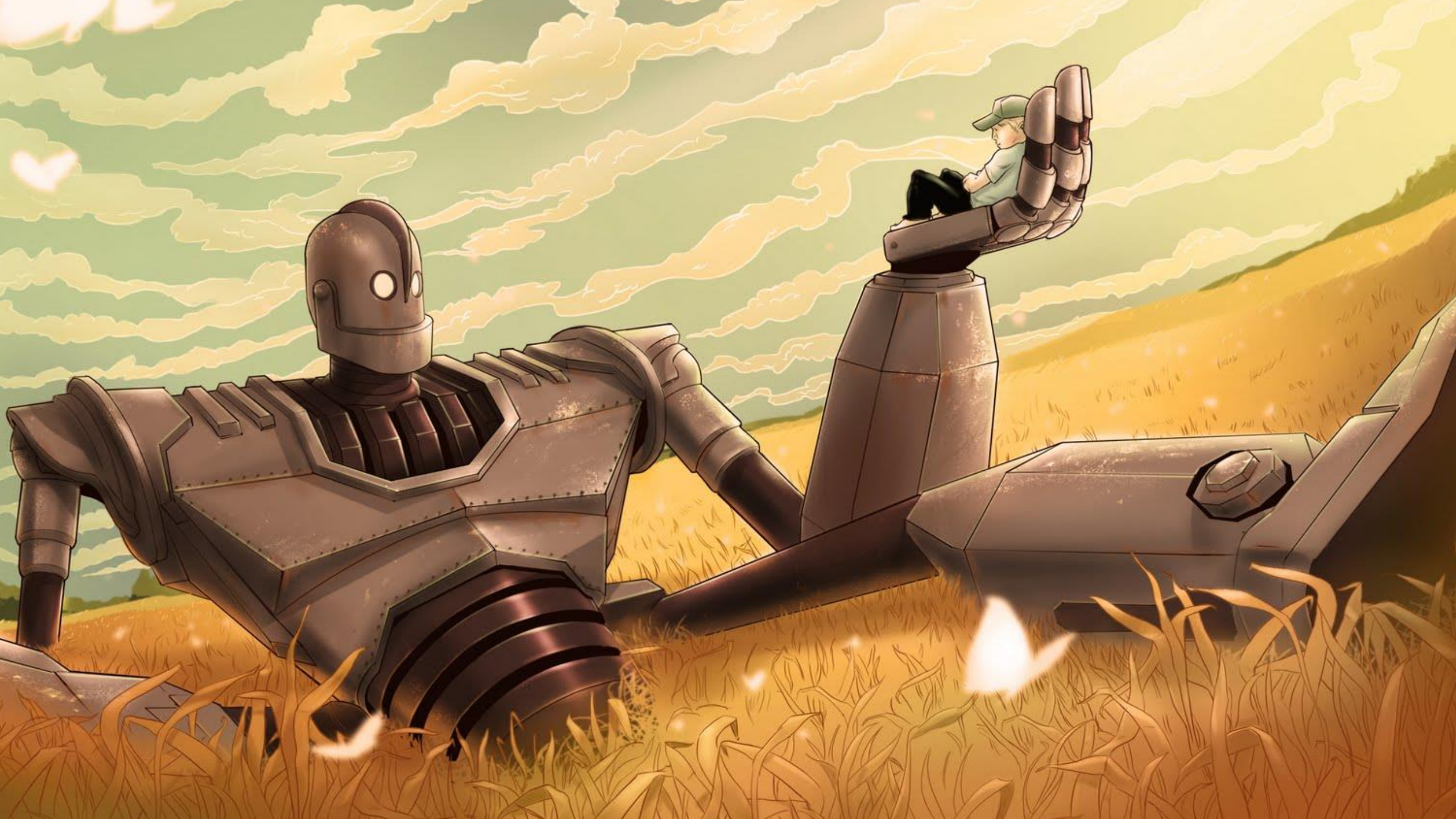
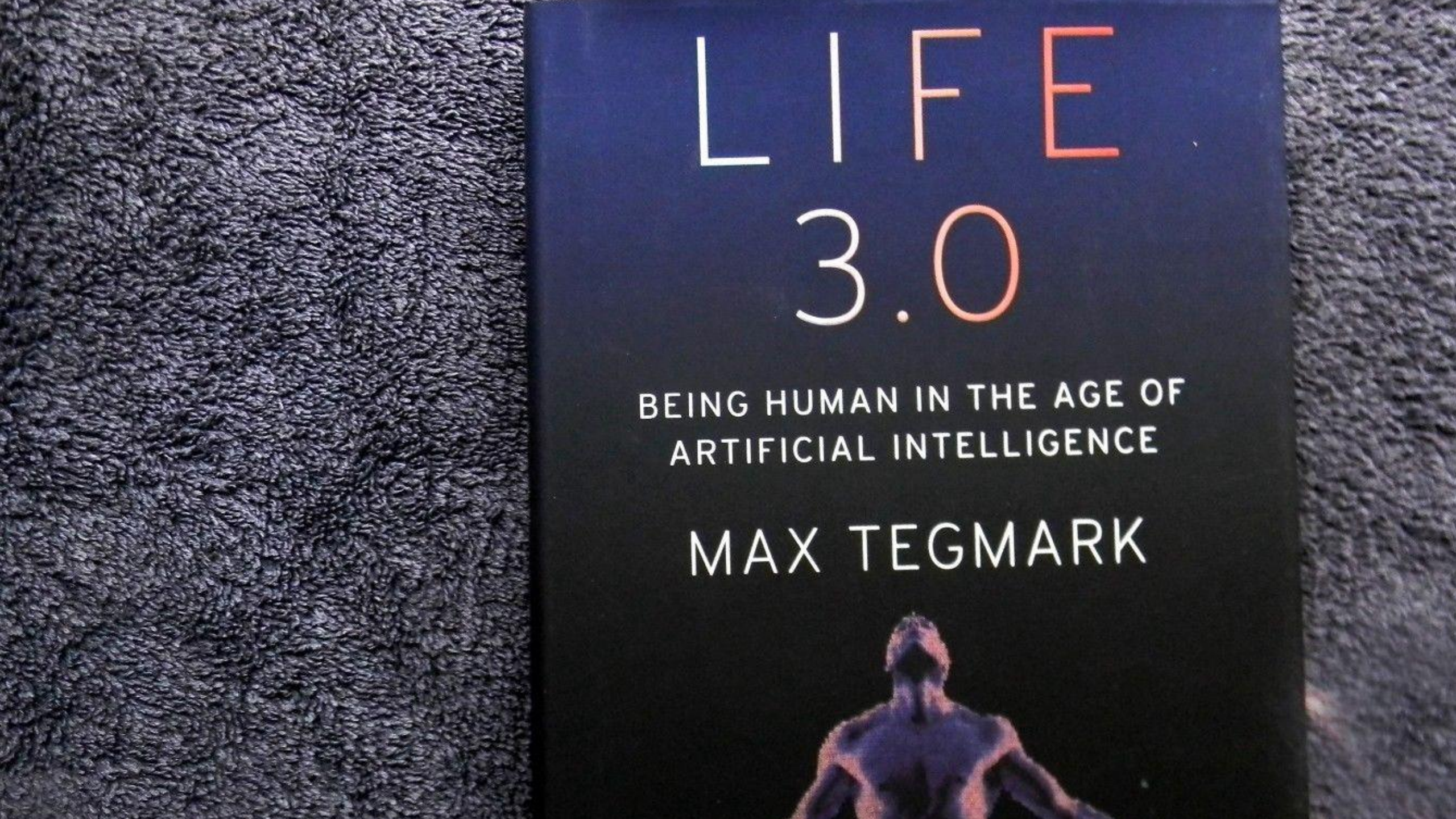


LIFE 3.0

BEING HUMAN IN THE AGE OF ARTIFICIAL INTELLIGENCE

MAX TEGMARK



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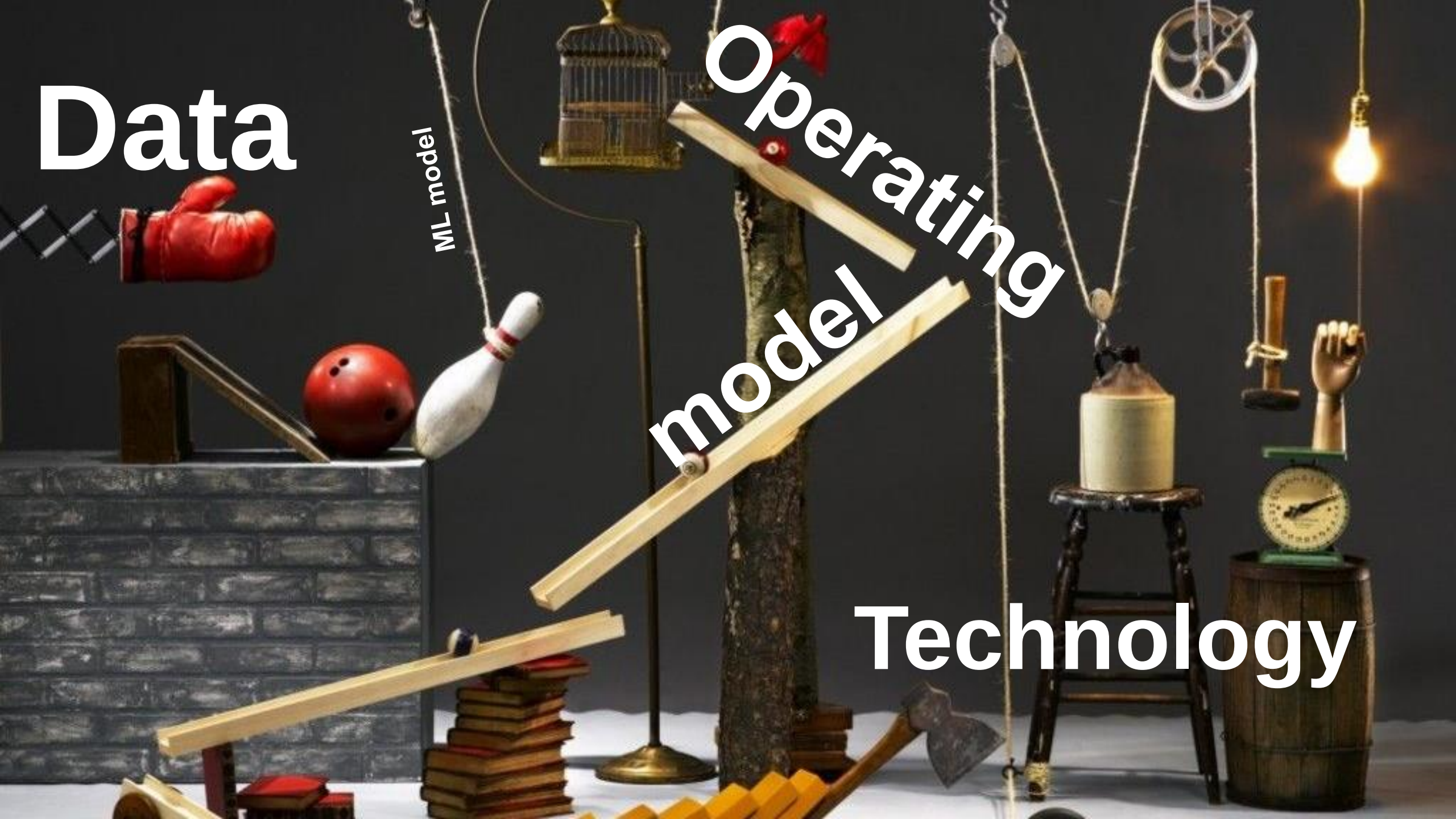
Data
ML model
Operating model
Technology

There is more to A.I. than the model…

Let’s build better a practice