

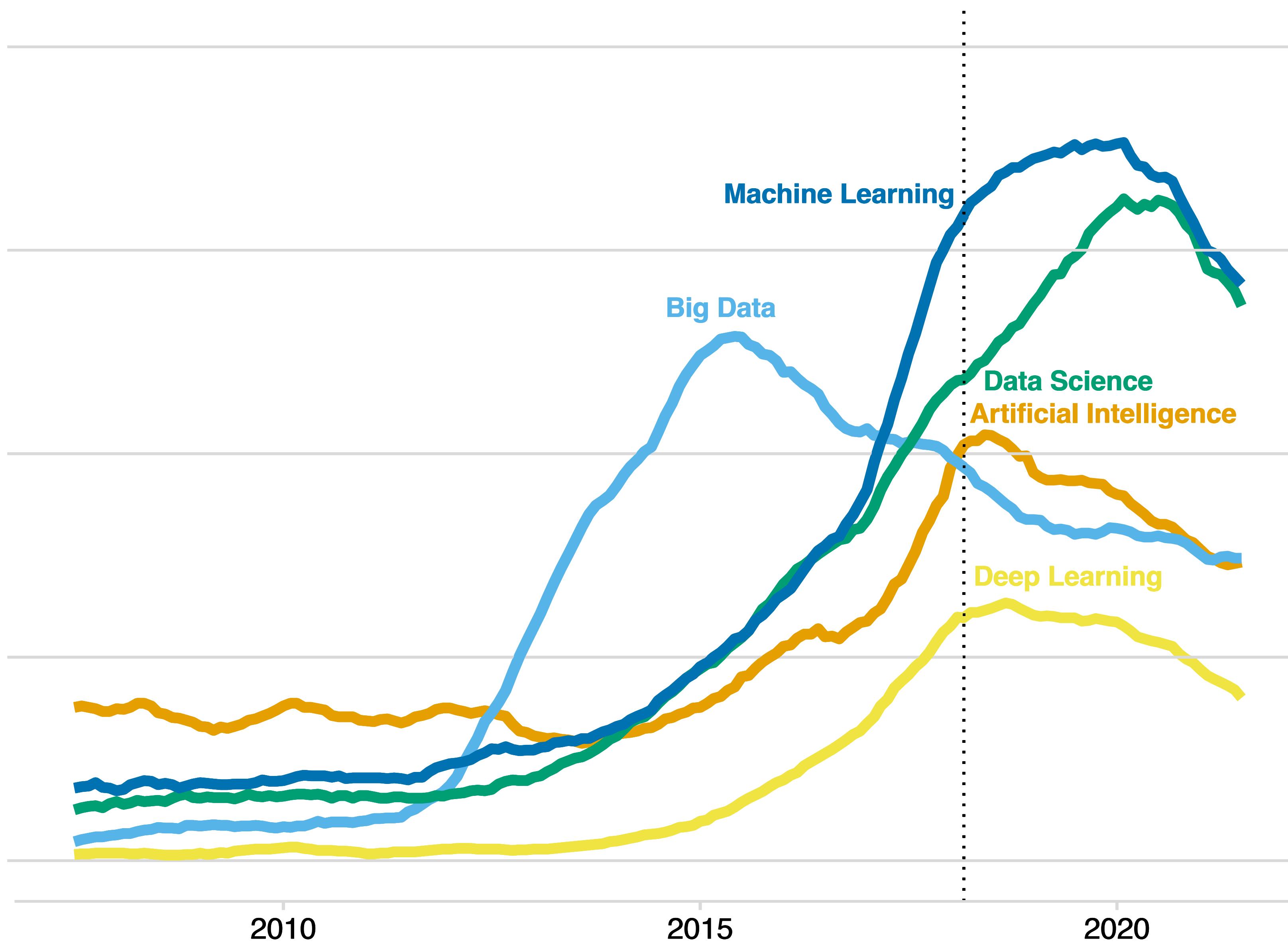
Building a Career in Data Science



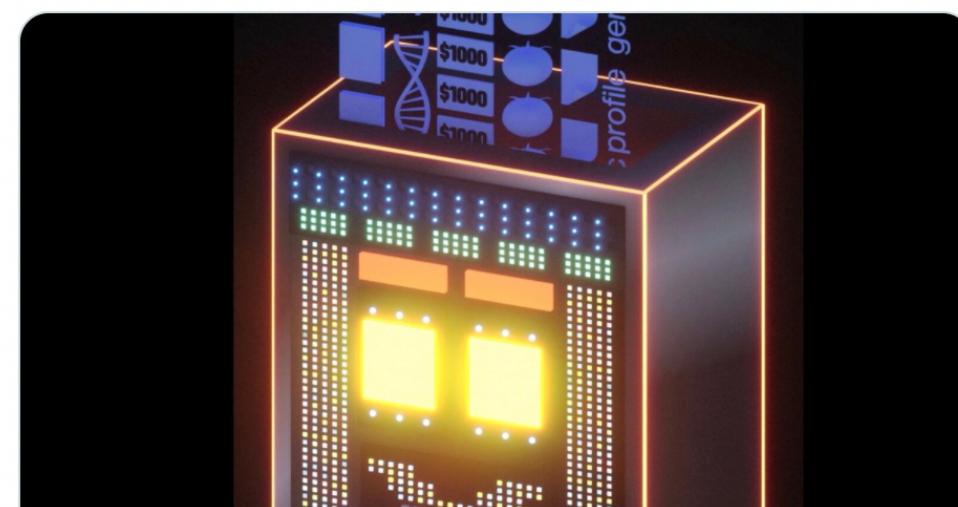
Ryan Wesslen | ryanwesslen.com | October 6, 2021

bit.ly/ryan-datascience-asu

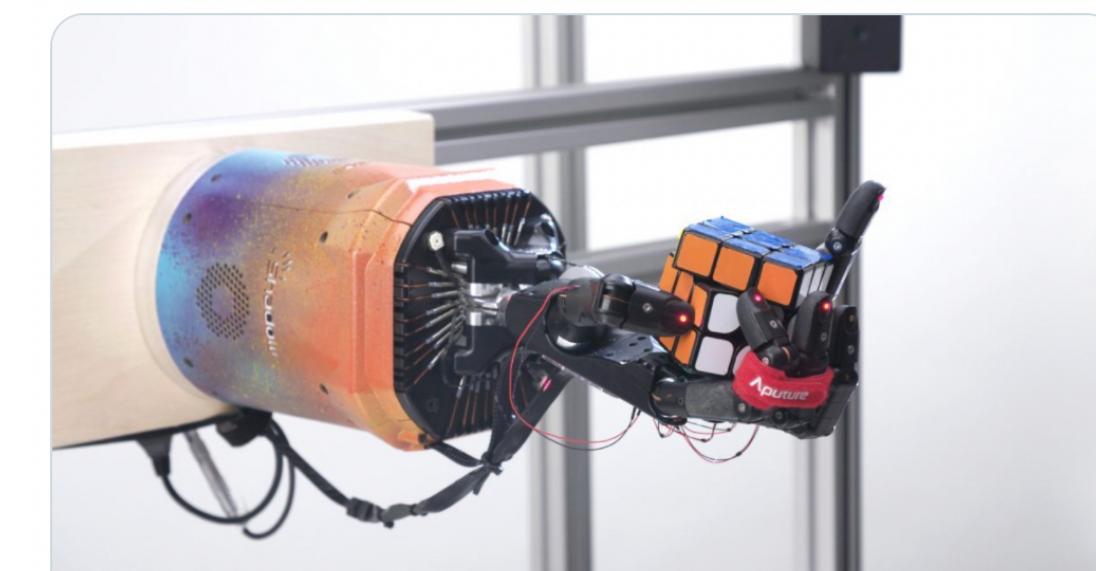
Google Trends 12 Month Moving Average



The New York Times @nytimes · Jul 16
IBM's Watson was supposed to transform industries and generate riches for the company. Neither has panned out. Today, it stands out as a sobering example of the pitfalls of hype and hubris around AI.



What Ever Happened to IBM's Watson?
IBM's artificial intelligence was supposed to transform industries and generate riches for the company. Neither has panned out. Now, IB...
🔗 nytimes.com



OpenAI disbands its robotics research team
OpenAI has disbanded its robotics team in what might be a reflection of economic and commercial realities.
🔗 venturebeat.com

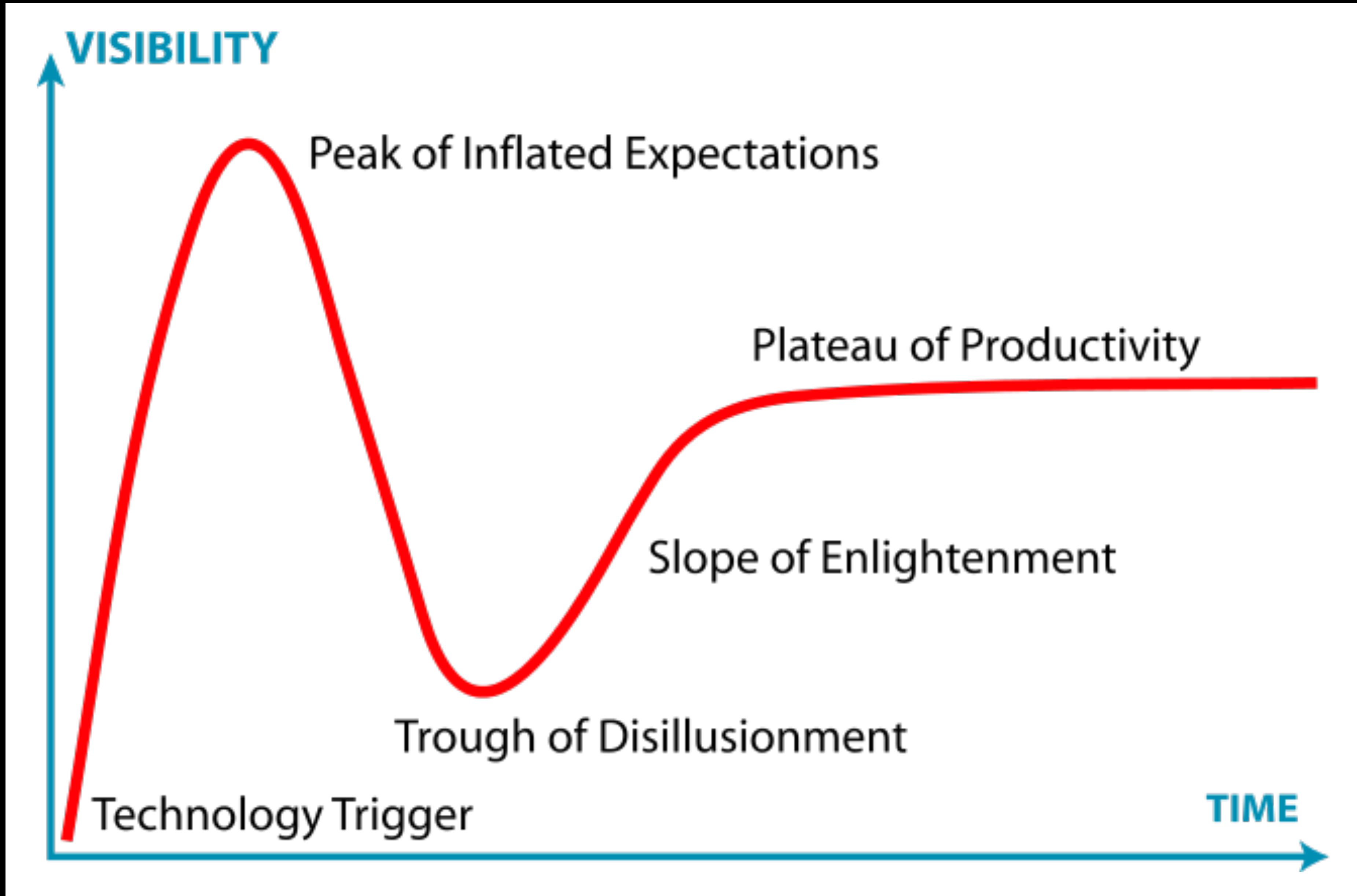


MIT Technology Review @techreview · Jul 18
Artificial intelligence is already creating real harm, just not in the ways most people would expect. The good news is the fight back has begun.



The true dangers of AI are closer than we think
Forget superintelligent AI: algorithms are already creating real harm. The good news: the fight back has begun.
🔗 technologyreview.com

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Source: Jeremy Kemp (via Dustin Arendt)
https://commons.wikimedia.org/wiki/File:Gartner_Hype_Cycle.svg

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The best resource for building a career in data science (IMHO)

PART 1: GETTING STARTED WITH DATA SCIENCE

- 1 WHAT IS DATA SCIENCE? ▶
- 2 DATA SCIENCE COMPANIES ▶
- 3 GETTING THE SKILLS ▶
- 4 BUILDING A PORTFOLIO ▶

PART 2: FINDING YOUR DATA SCIENCE JOB

- 5 THE SEARCH: IDENTIFYING THE RIGHT JOB FOR YOU ▶
- 6 THE APPLICATION: RÉSUMÉS AND COVER LETTERS ▶
- 7 THE INTERVIEW: WHAT TO EXPECT AND HOW TO HANDLE IT ▶
- 8 THE OFFER: KNOWING WHAT TO ACCEPT ▶

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- 10 MAKING AN EFFECTIVE ANALYSIS ▶
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- 12 WORKING WITH STAKEHOLDERS ▶

PART 4: GROWING IN YOUR DATA SCIENCE ROLE

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- 16 MOVING UP THE LADDER ▶

BUILD A CAREER IN Data Science

Emily Robinson

Jacqueline Nolis



 MANNING

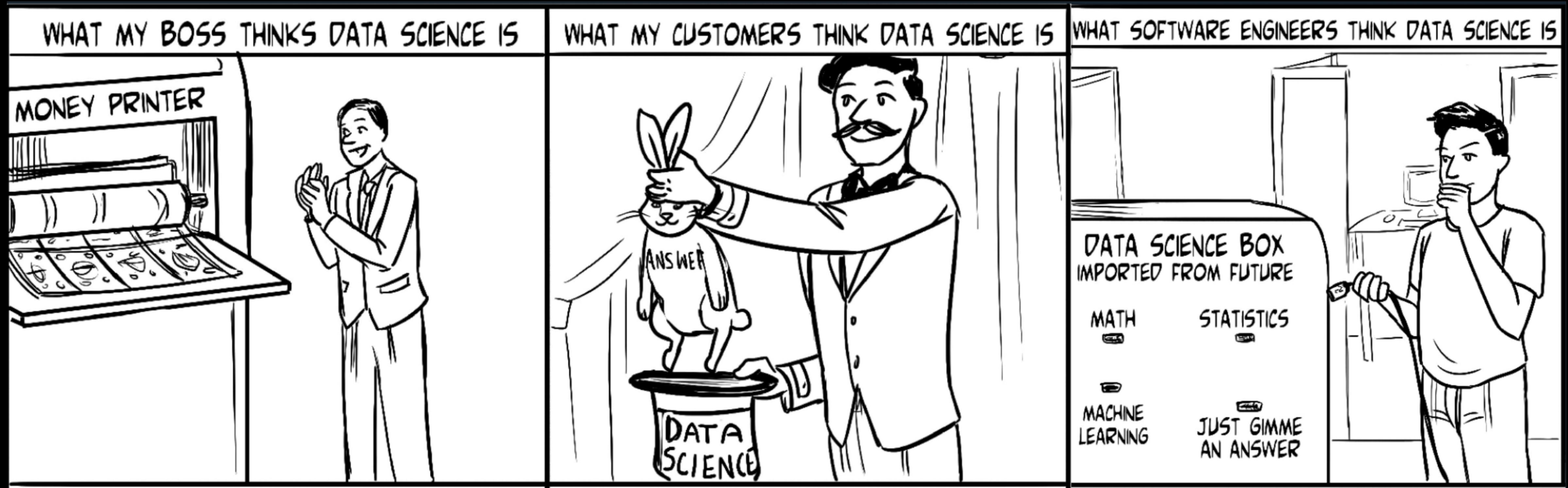
bestbook.cool

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Agenda

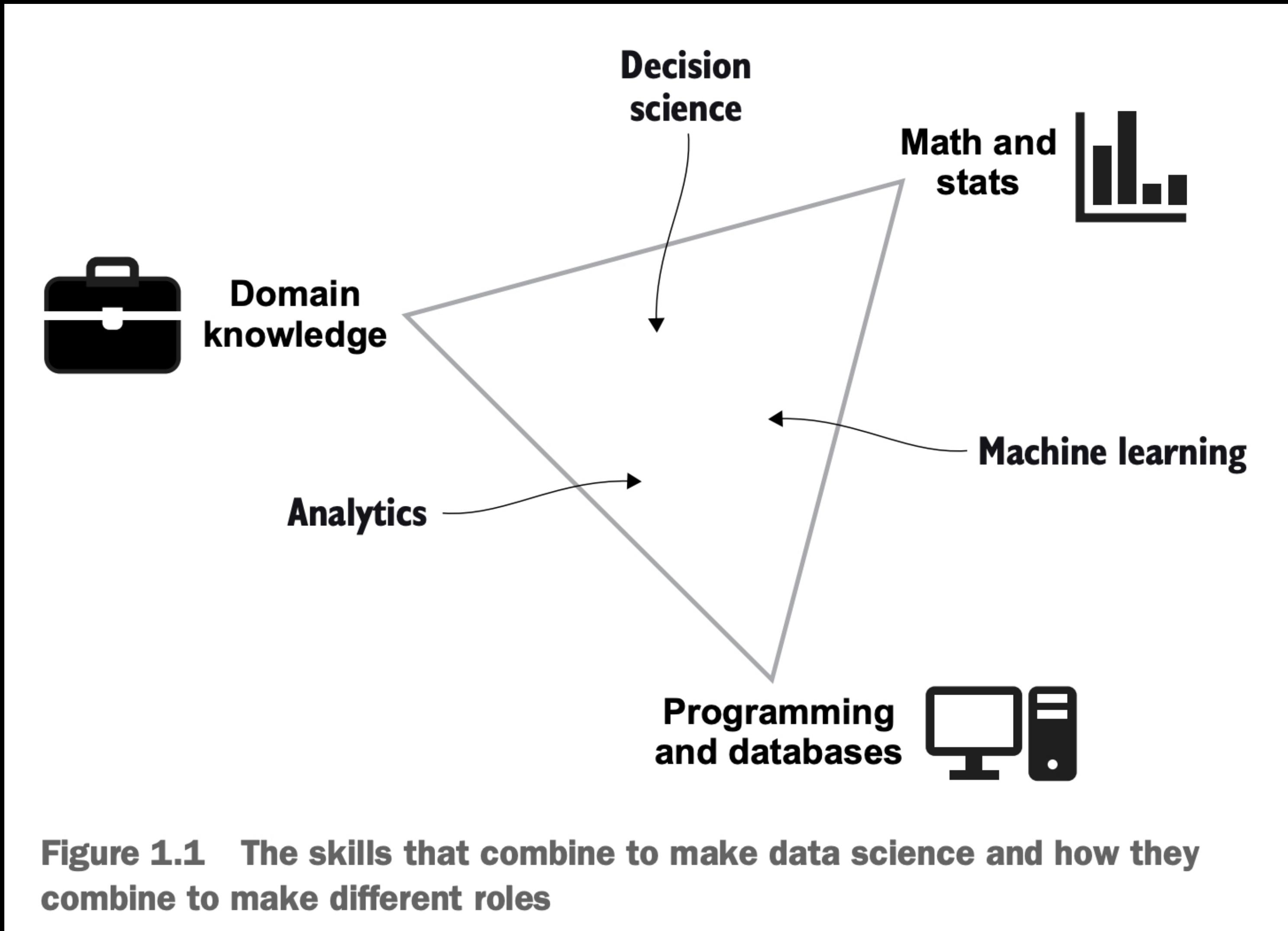
1. What is data science?
2. What skills do data scientists need?
3. How to find, settle, and grow a career in data science

What is Data Science?

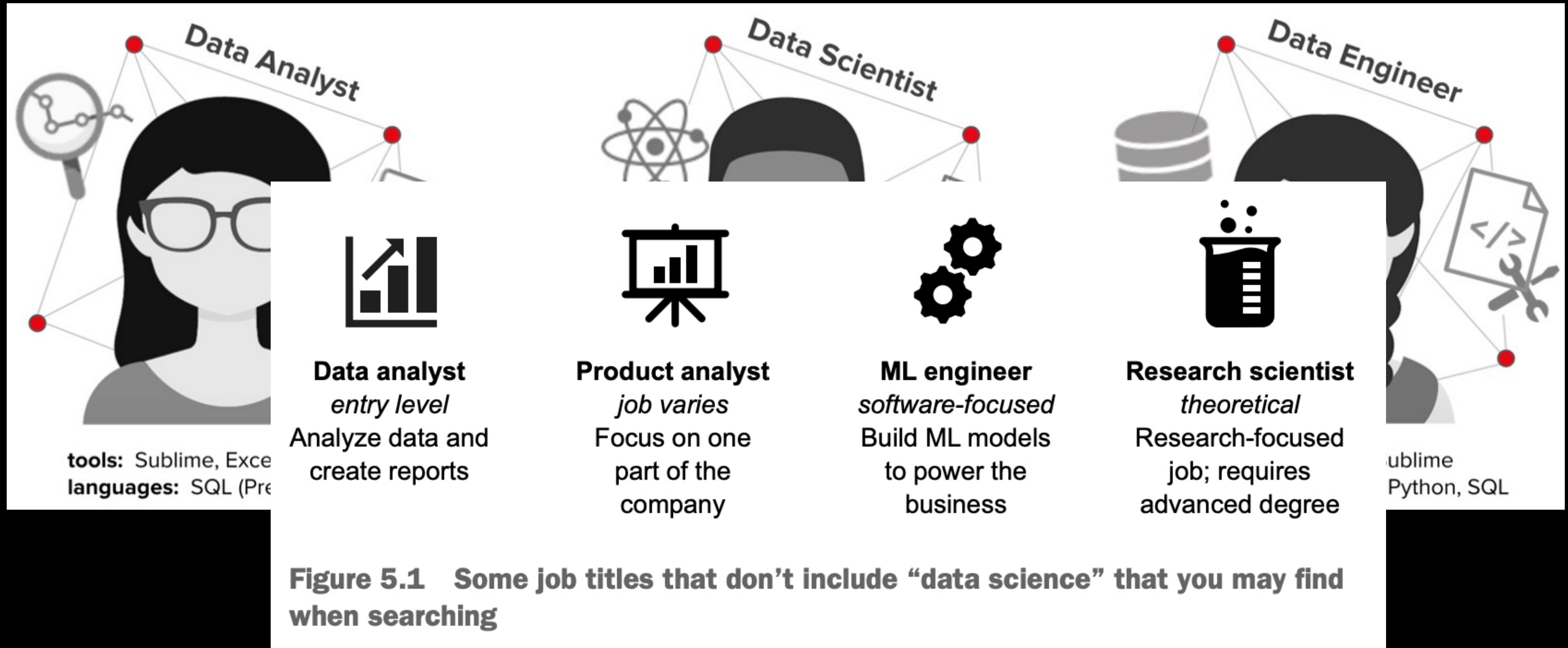


Source: Gabriela de Quierez bit.ly/dsc-europe-2020

What is Data Science?

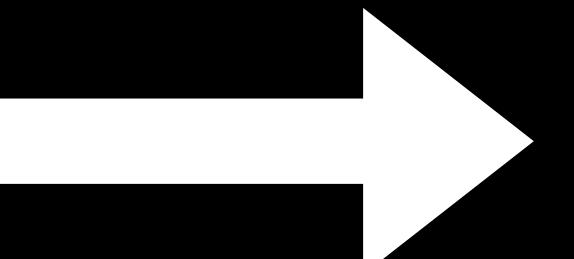


Job Paths



Can anyone become a data scientist?

Three important trends in data science

- Data science has moved through the early stages of the hype cycle
 - There is an oversupply of new data scientists
 - Shift in the way data science titles are distributed
- 



Vicki Boykis @vboykis

- Job market for junior data scientists is very competitive/crowded.
- May be applying for jobs not truly reflective of data science

Acquiring data science skills



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How to get the skills

- Earning a graduate degree in data science or a related field
- Participating in a data science bootcamp (e.g., 8-15 week crash course)
- Doing data science work in your current job
- Teaching yourself thru online courses and data science books

What is the most important skill for a data scientist?

Learn how to learn



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Chicken vs egg problem: getting first data scientist job

Experience

Job as data scientist

Build your portfolio



Advice to aspiring data scientists: start a blog

Last week I shared a thought on Twitter:

 **David Robinson**
@drob 

When you've written the same code 3 times, write a function

When you've given the same in-person advice 3 times, write a blog post

9:22 PM · Nov 8, 2017 

 4.2K  46  Copy link to Tweet

[Tweet your reply](#)

Ironically, this tweet hints at a piece of advice I've given at least 3 *dozen* times, but haven't yet written a post about. I've given this advice to almost every aspiring data scientist who asked me what they should do to find a job: **start a blog, and write about data science.**¹

<http://varianceexplained.org/r/start-blog/>

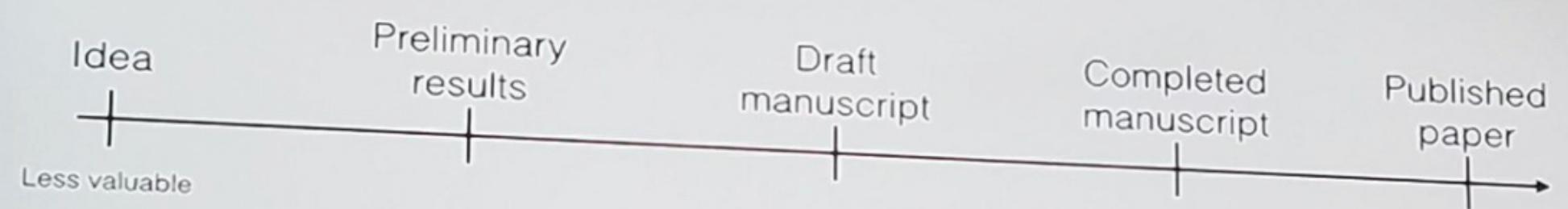


Amelia McNamara
@AmeliaMN 

"Things that are still on your computer are approximately useless." -[@drob #eUSR #eUSR2017](#)

Webcams Zoom: 42% Screenshot

How I thought of my goals in grad school:



Idea Preliminary results Draft manuscript Completed manuscript Published paper
Less valuable More valuable

How I should have been thinking of them:



Anything still on your computer (Data, code, results, draft, finished paper)
Anything out in the world (Paper, preprint, product, blog post, open source, tweet)
Less valuable More valuable

2:00 PM · Nov 3, 2017 · Twitter for Android

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Vincent D. Warmerdam

@fishnets88

...

Announcement! The guy behind *that recruiter pokemon meme* will be delivering a keynote at a technical recruitment conference!

If you're interested in the story behind this photo you can find more info here: talent42.com/home

my linkedin profile

R, python, javascript, shiny, dplyr, purrr, ditto, ggplot, d3, canvas, spark, sawk, pyspark, sparklyR, lodash, lazy, bootstrap, jupyter, vulpix, git, flask, numpy, pandas, feebas, scikit, pgm, bayes, h2o.ai, sparkling-water, tensorflow, keras, onyx, ekans, hadoop, scala, unity, metapod, gc, c#/c++, krebbase, neo4j, hadoop.

I typically ask recruiters to point out which of these are pokemon.

5:21 AM · Oct 16, 2020 · Twitter Web App

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Start

Exploratory analysis

Model development

API development

Code review

Unit test creation

Load testing

Deploying to production

Figure 11.1 Example process of creating a production machine learning product



<https://calmcode.io>

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<https://learning.rasa.com>



Understanding Rasa Deployments

Understand the underlying technology behind a Rasa deployment. Includes Kubernetes, Docker and Helm.

Beginner Python Content



args kwargs
Function Arguments



comprehensions
Awesome One-Liners



lambda
Expressive Functions

Tools that Check Python Code



black
Format Your Code



flake8
Check Your Style



pre-commit
Prevent Bad Commits



pytest
Intro to Testing

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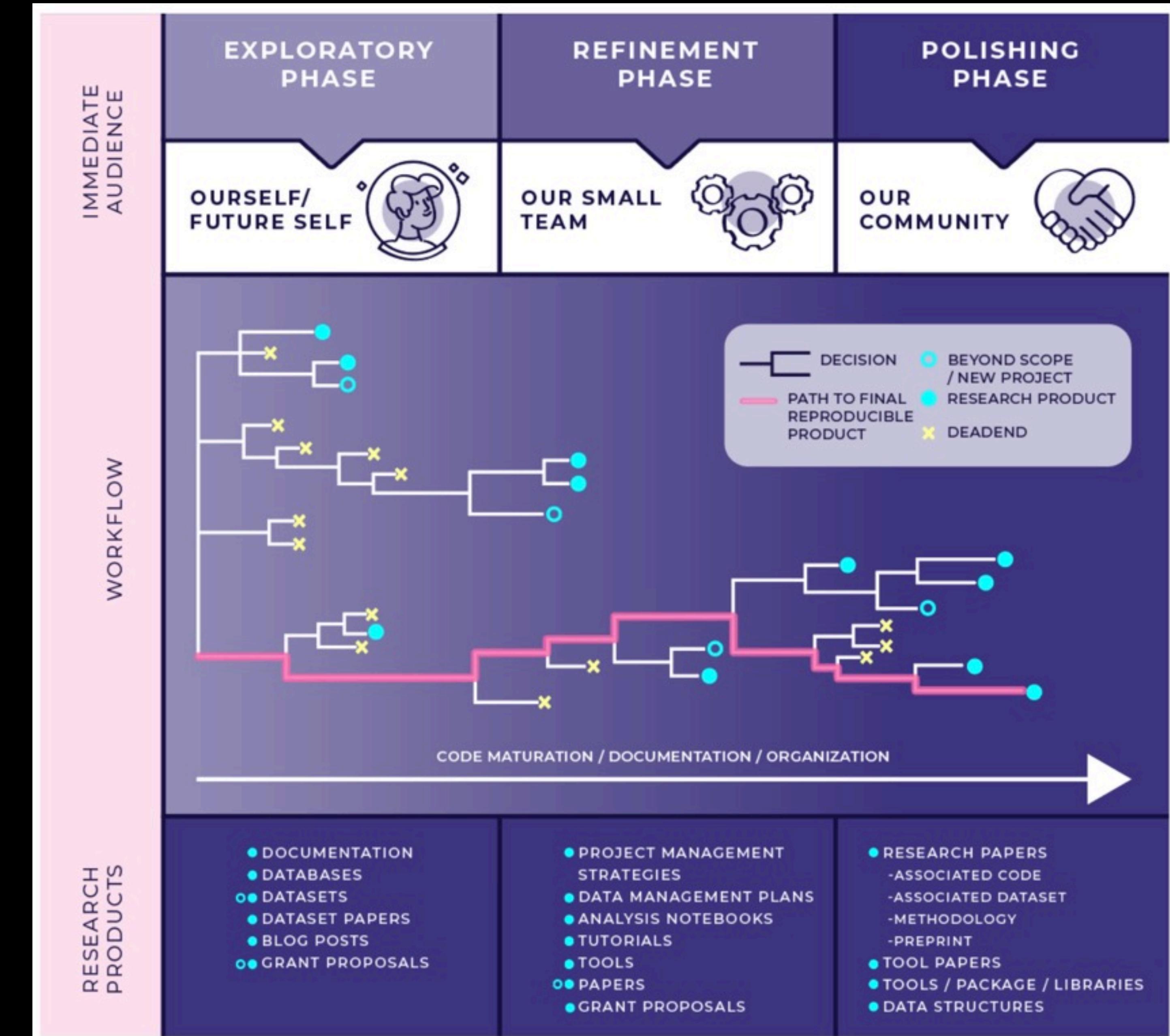
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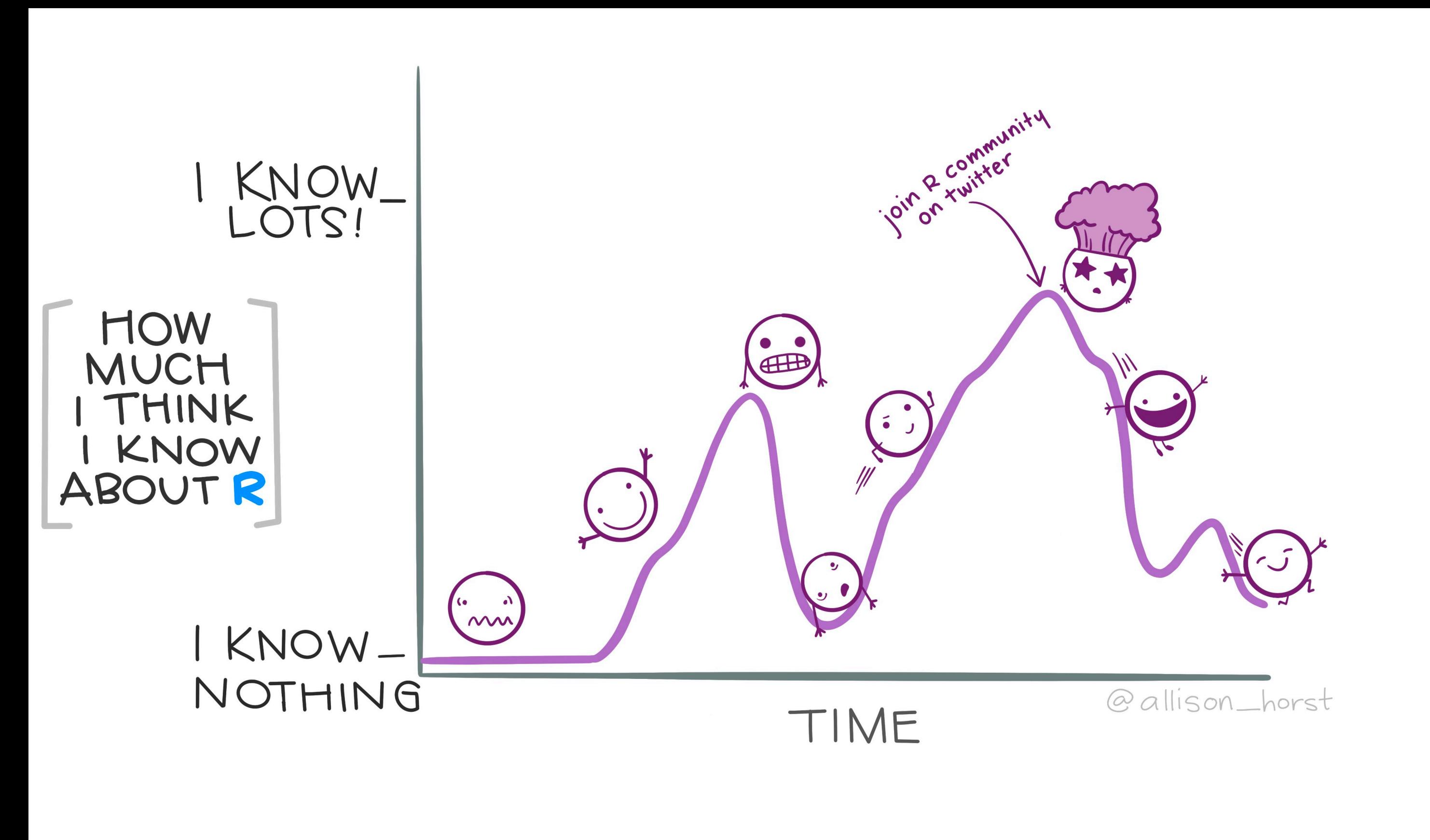
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#rstats on Twitter



AI Inclusive



R-Ladies
rladies.org

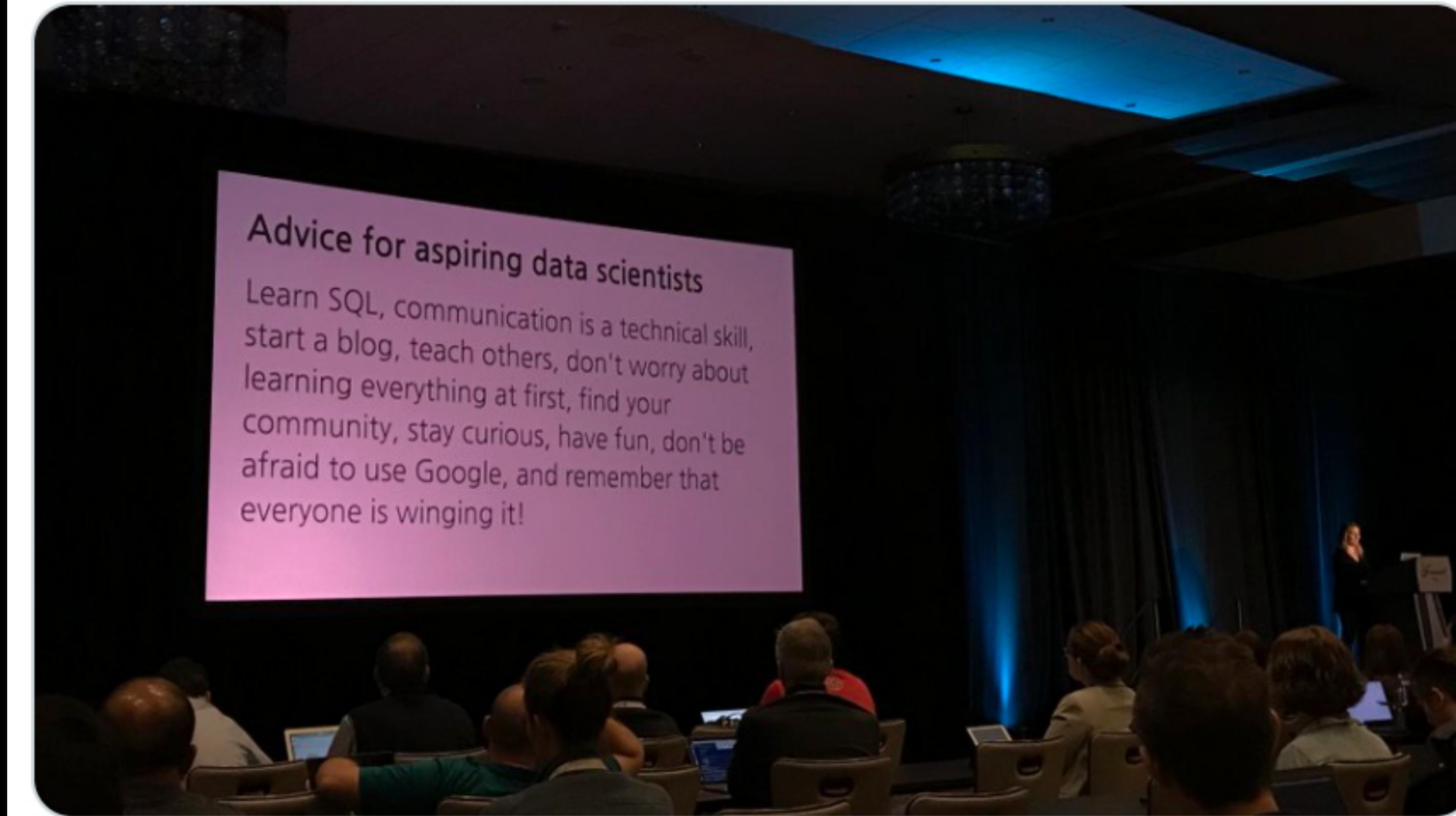
Final thoughts



Julia Silge
@juliasilge

...

Closing out this #rstudioconf talk with ~~100~~ advice for aspiring data scientists!



👤 Caitlin Hudon 🤖

2:22 PM · Jan 18, 2019 · Twitter Web Client

Just a handful of amazing data science leaders to follow
(whose resources I used for this talk)

Thank you!

Questions



@ryanwesslen
ryanwesslen.com

	Twitter	Website
Emily Robinson	@robinson_es	hookedondata.org
Jacqueline Solis	@skyetetra	jnolis.com
Vincent Warmerdam	@fishnets88	koaning.io
Vicki Boykis	@vboykis	vickiboykis.com
Gabriela de Quierez	@gdequeiroz	k-roz.com
David Robinson	@drob	varianceexplained.org
Caitlin Hudon	@beeonaposy	caitlinhudon.com
Allison Horst	@allison_horst	allisonhorst.com
Julia Silge	@juliasilge	juliasilge.com