

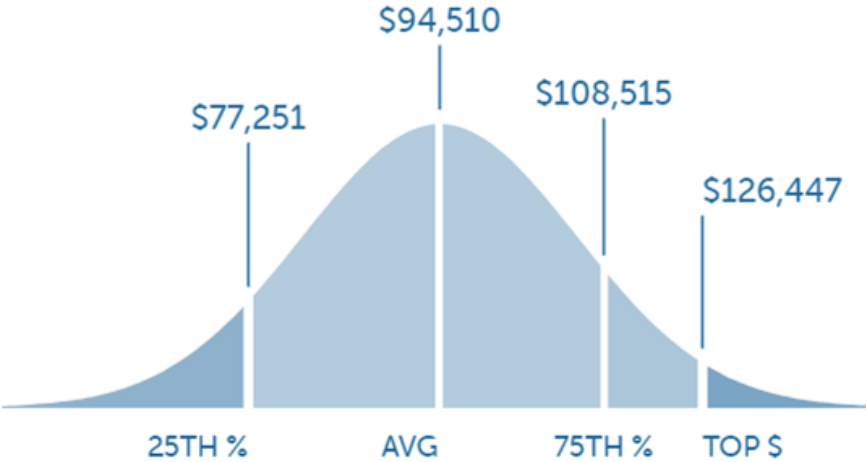
The background is a photograph of a bookshelf filled with books. A large, semi-transparent blue shape, resembling a stylized 'D' or a large arrow pointing right, is overlaid on the right side of the image. The text is centered within this blue area.

Tips and Tricks by badly-behaved Data Scientist

Gliwice, 21st of May 2019

AI vs ML

Compensation



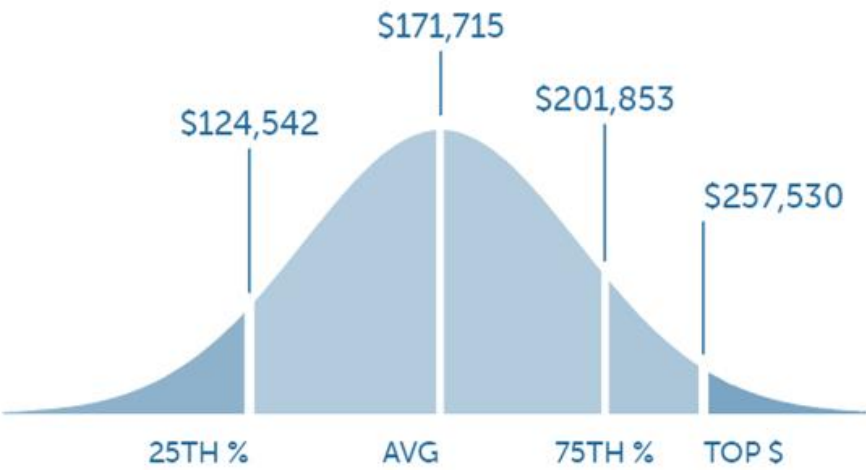
Salaries for Machine Learning Engineers

TOTAL COMPENSATION	
25TH PERCENTILE	\$77,251
AVERAGE	\$94,510
75TH PERCENTILE	\$108,515
TOP EARNERS	\$126,447

BREAK DOWN: AVERAGE	
BASE	\$94,510

Source: bit.ly/30I1Pq2

Compensation



Salaries for Artificial Intelligence Engineers

TOTAL COMPENSATION	
25TH PERCENTILE	\$124,542
AVERAGE	\$171,715
75TH PERCENTILE	\$201,853
TOP EARNERS	\$257,530

BREAK DOWN: AVERAGE	
BASE	\$114,857
EQUITY	\$39,666
BONUS	\$17,191
SIGNING BONUS	\$9,268

Source: bit.ly/2M9egHU

AI vs ML



Mat Velloso

@matvelloso



Difference between machine learning and AI:

If it is written in Python, it's probably machine learning

If it is written in PowerPoint, it's probably AI

♡ 23K 2:25 AM - Nov 23, 2018

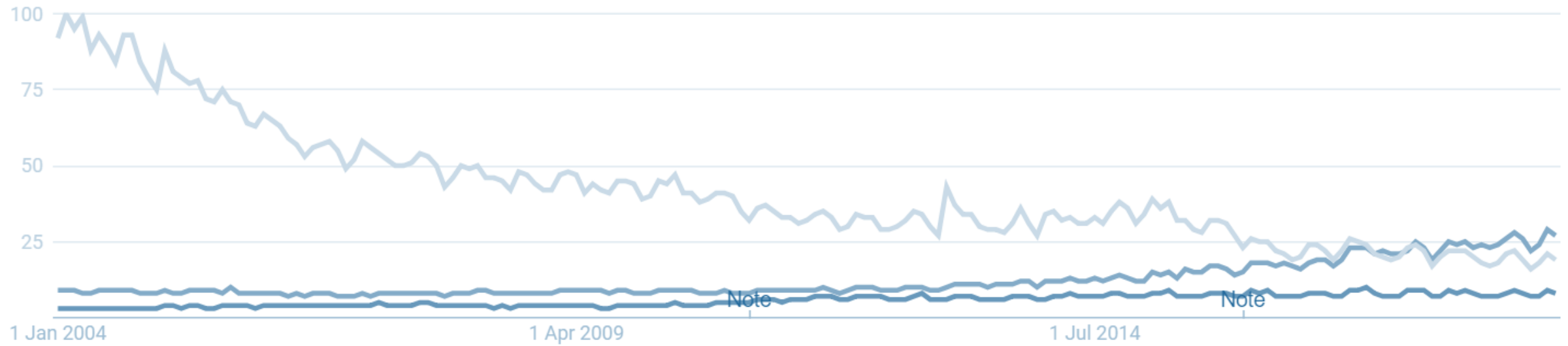


💬 8,467 people are talking about this



Python vs R

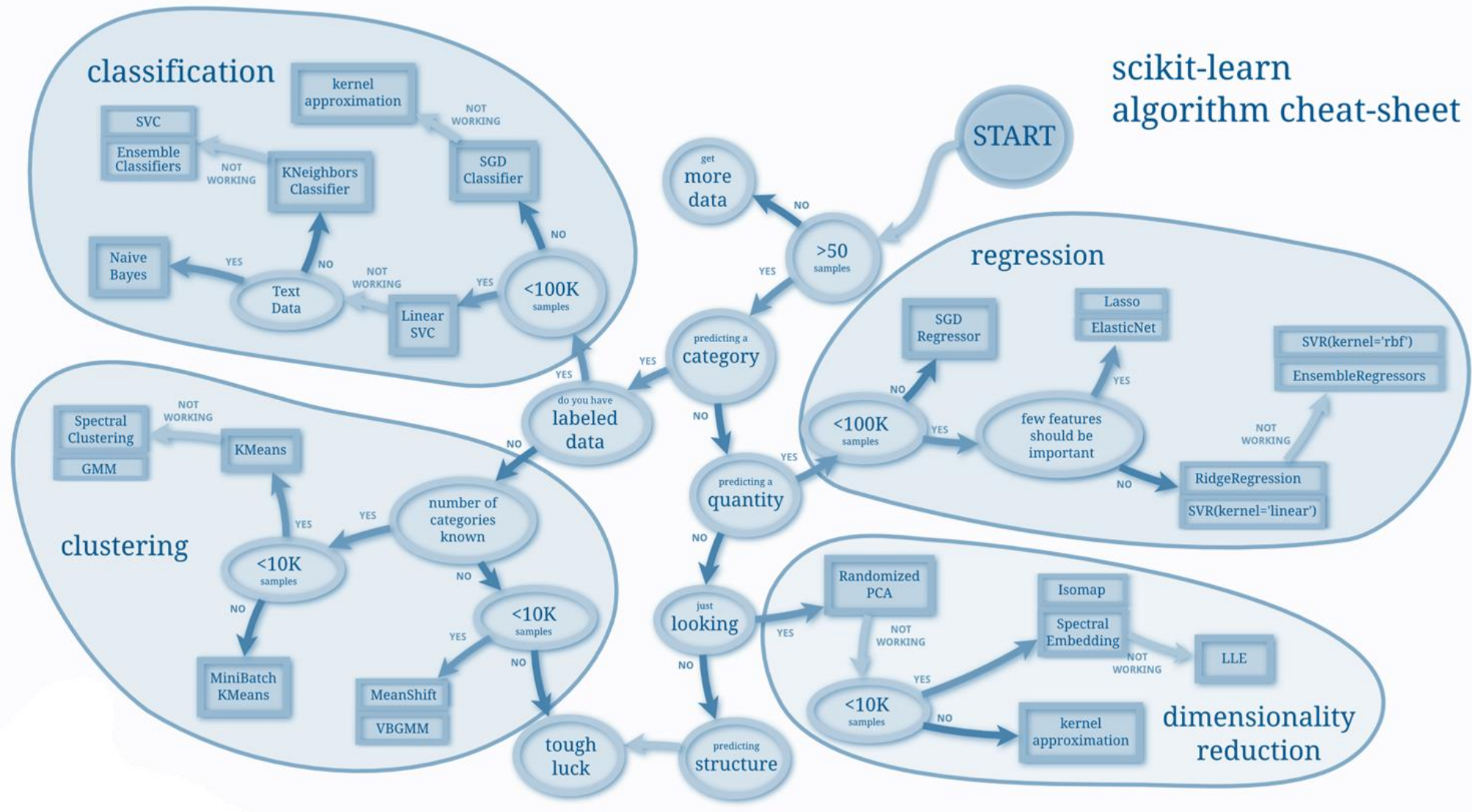
Python vs R vs Java



Source: bit.ly/2Ojajhs



Data Volume



Source: bit.ly/2HuB6II



AI Leaders

AI Leaders



Geoffrey Hinton

- 1947, UK
- [Wikipedia](#)
- [Website](#)
- **Twitter:** @geoffreyhinton
- geoffrey.hinton@gmail.com



Yann LeCun

- 1960, France
- [Wikipedia](#)
- [Website](#)
- **Twitter:** @ylecun
- **Facebook:** yann.lecun
- **LinkedIn:** yann-lecun-0b999
- yann@fb.com



Yoshua Bengio

- 1964, France
- [Wikipedia](#)
- [Website](#)
- **Facebook:** yoshua.bengio
- **LinkedIn:** yoshuabengio
- yoshua.bengio@umontreal.ca

AI Leaders



Andrew Ng

- 1976, UK
- [Wikipedia](#)
- [Website](#)
- **Twitter:** @AndrewYNg
- **Facebook:** andrew.ng.96
- **LinkedIn:** andrewyng
- ang@cs.stanford.edu

TOP 5 Tricks

1/5 Data preparation



Iceberg



The 90/10 Rule

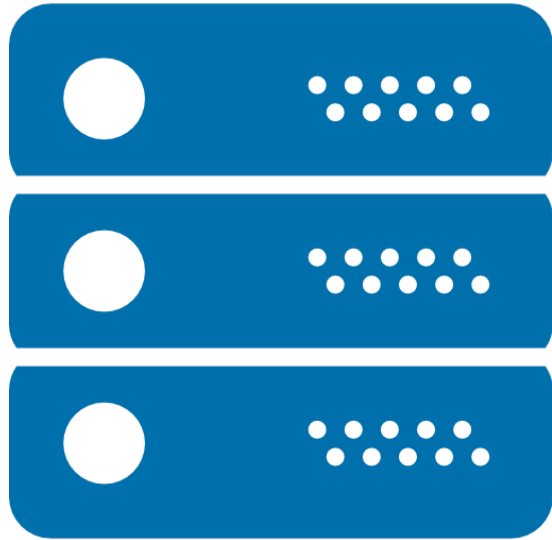
10%
analysis

90% data

2/5 Resources



Server



Moore's Law

**# of
transistors
x2 every
two years**

3/5 Domain knowledge



Books



The Role of Domain Knowledge

**Domain
knowledge
is important**

4/5 Magic numbers



Magic



Is Machine Learning Magic?

70% / 30%

train / test

5/5 Polish language



Poland



Language Difficulty Ranking

**Polish is the
hardest
language!**

About Capgemini

A global leader in consulting, technology services and digital transformation, Capgemini is at the forefront of innovation to address the entire breadth of clients' opportunities in the evolving world of cloud, digital and platforms. Building on its strong 50-year heritage and deep industry-specific expertise, Capgemini enables organizations to realize their business ambitions through an array of services from strategy to operations. Capgemini is driven by the conviction that the business value of technology comes from and through people. It is a multicultural company of over 200,000 team members in more than 40 countries. The Group reported 2018 global revenues of EUR 13.2 billion.

Learn more about us at

www.capgemini.com



People matter, results count.

Ruslan Korniiichuk

Senior Consultant

Capgemini

ruslan.korniichuk@capgemini.com

+48 791 065 877