



# Tips and Tricks by badly-behaved Data Scientist

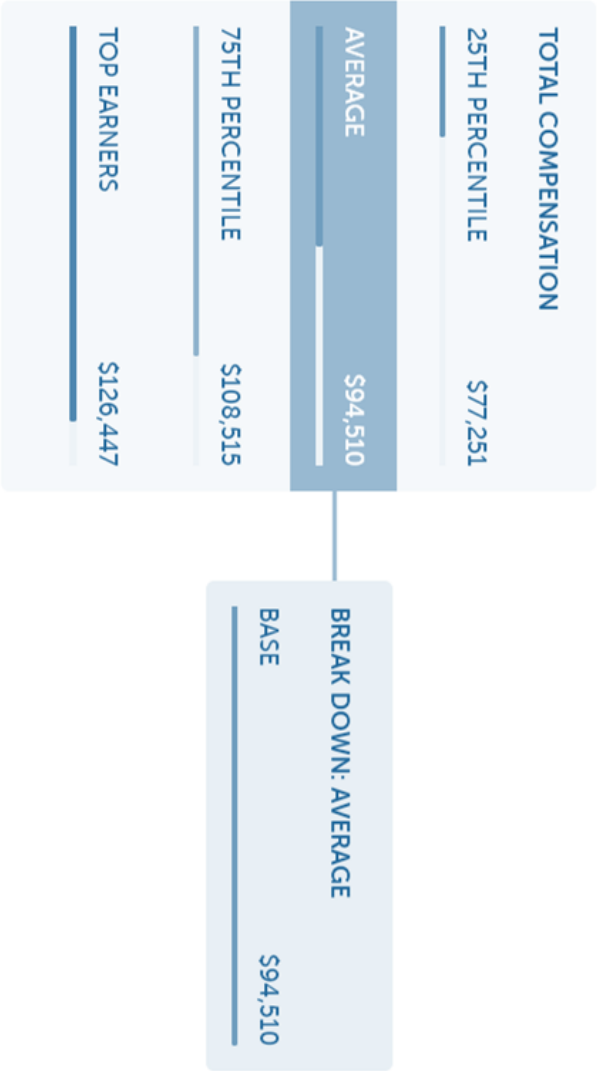
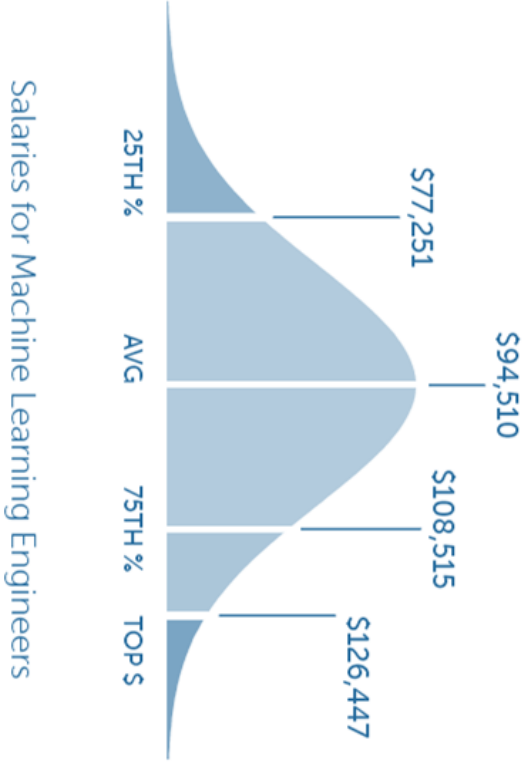
Gliwice, 21st of May 2019

# AI vs ML

# AI vs ML



## Compensation

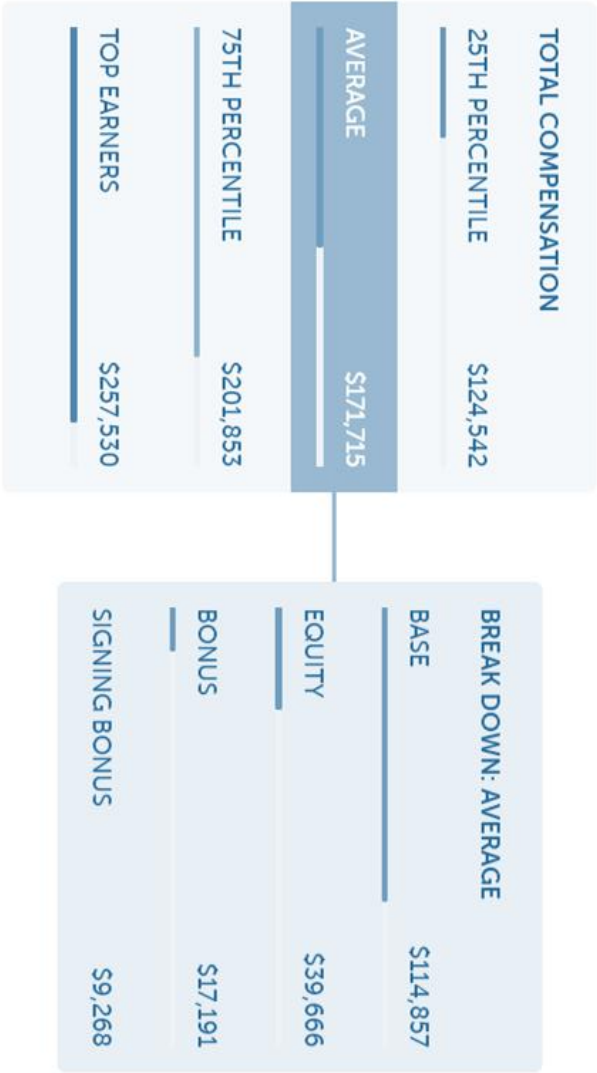
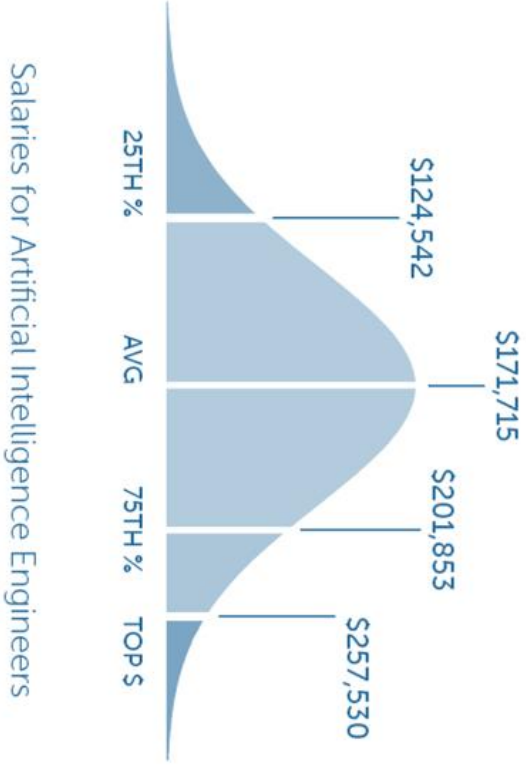


**Source:** [bit.ly/30I1Pq2](https://bit.ly/30I1Pq2)

# AI vs ML



## Compensation



**Source:** [bit.ly/2M9eghU](https://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



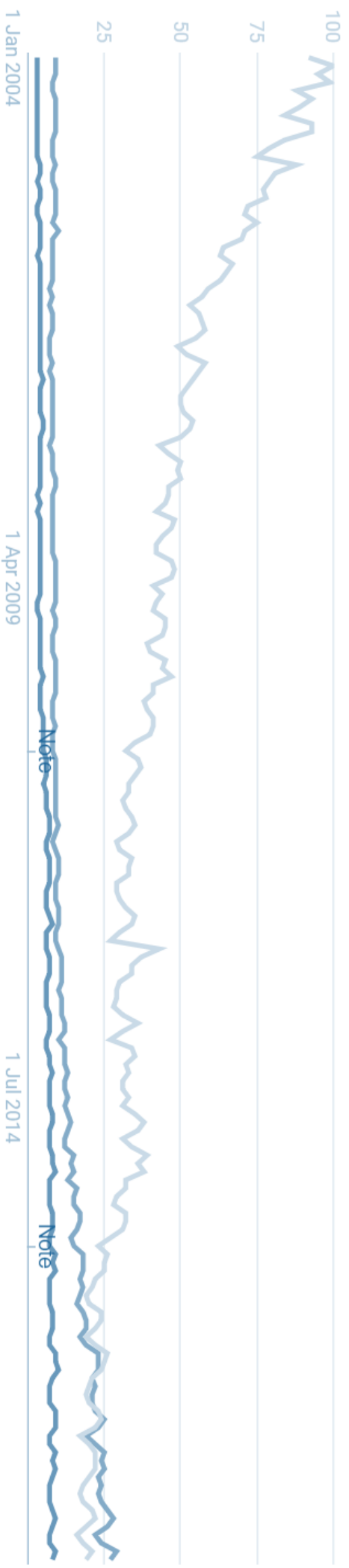
♡ 8,467 people are talking about this



# Python vs R



# Python vs R vs Java

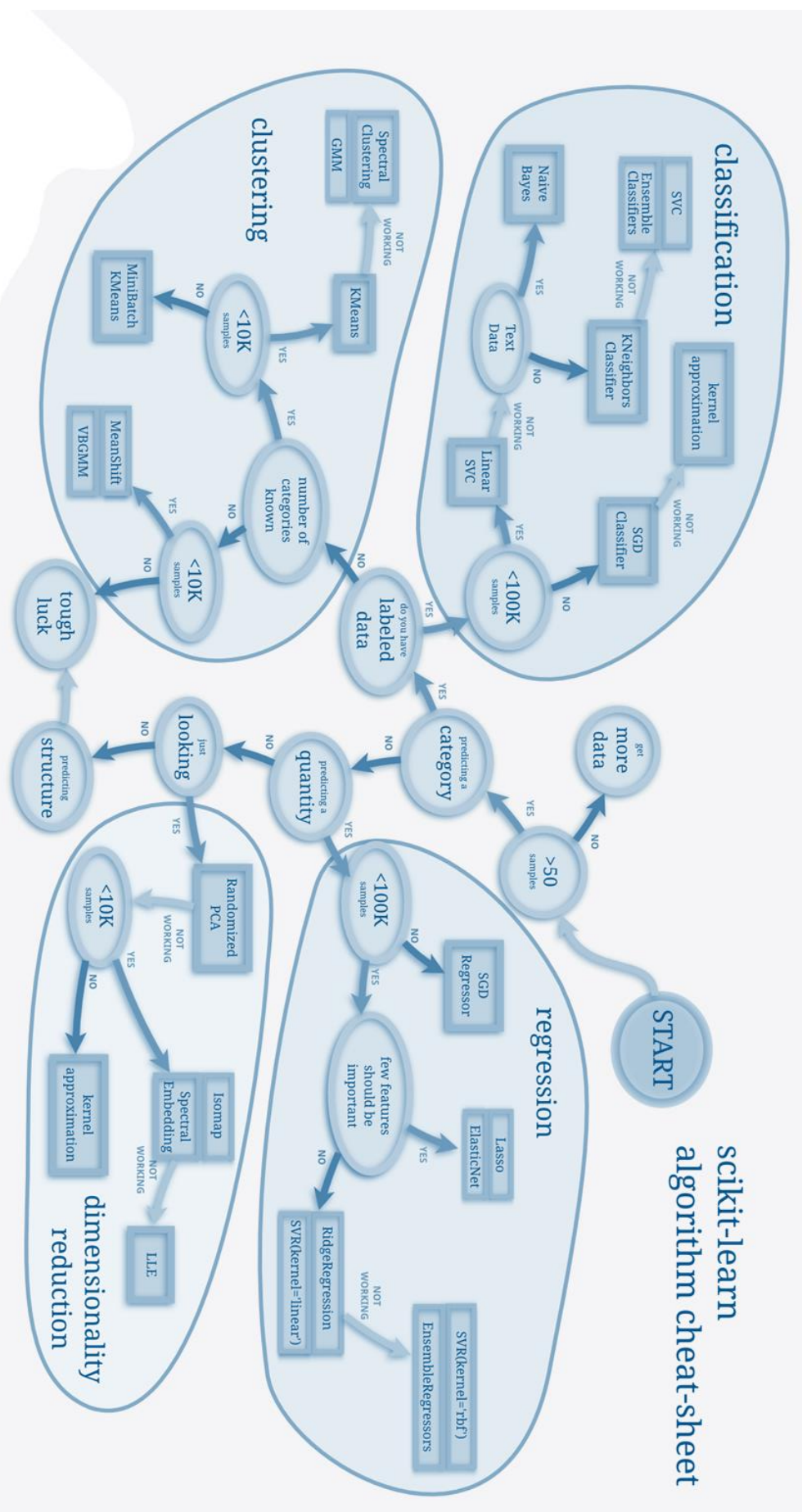


**Source:** [bit.ly/2Ojajhs](http://bit.ly/2Ojajhs)



**Data Volume**





Source: [bit.ly/2HuB6lI](https://bit.ly/2HuB6lI)

# AI Leaders



# AI Leaders



**Geoffrey Hinton**

- 1947, UK
- [Wikipedia](#)
- [Website](#)
- **Twitter:** @geoffreyhinton
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**Yann Lecun**

- 1960, France
- [Wikipedia](#)
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**Yoshua Bengio**

- 1964, France
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# AI Leaders



**Andrew Ng**

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

# TOP 5 Tricks



# 1/5 Data preparation

Iceberg



The 90/10 Rule

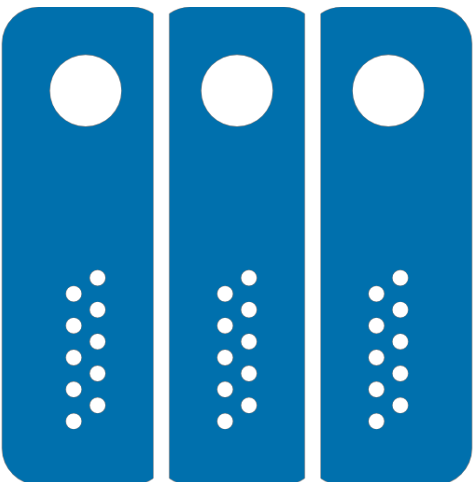
**10%**  
**analysis**

**90% data**



## 2/5 Resources

Server



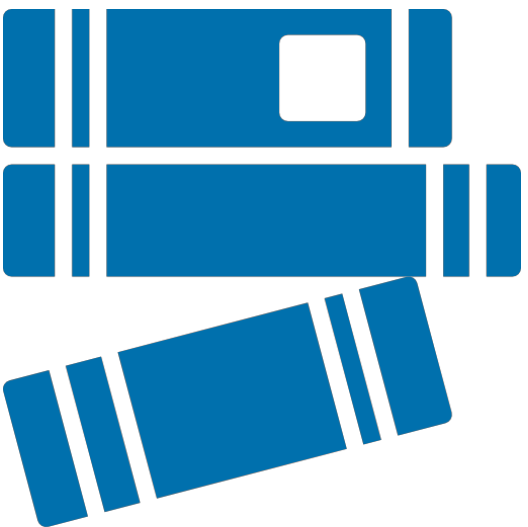
Moore's Law

**# of  
transistors  
x2 every  
two years**



## 3/5 Domain knowledge

Books



The Role of Domain Knowledge

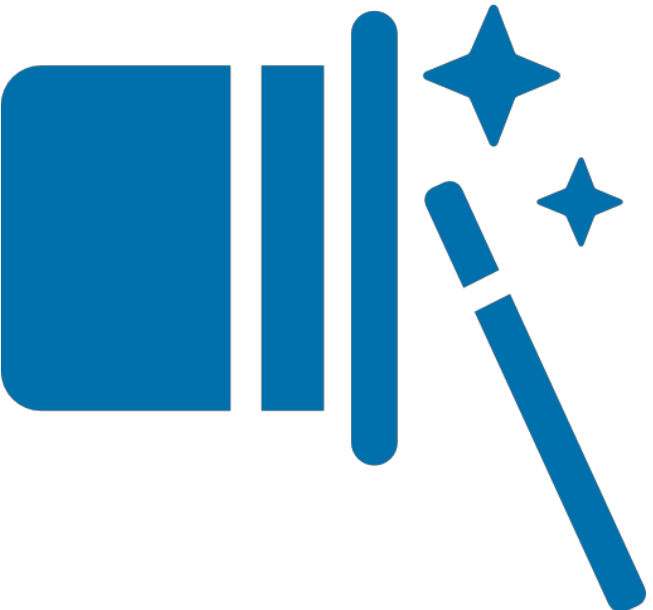
**Domain  
knowledge  
is important**





# 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!**

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**People matter, results count.**

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