The State of AI

"AI is the new electricity"
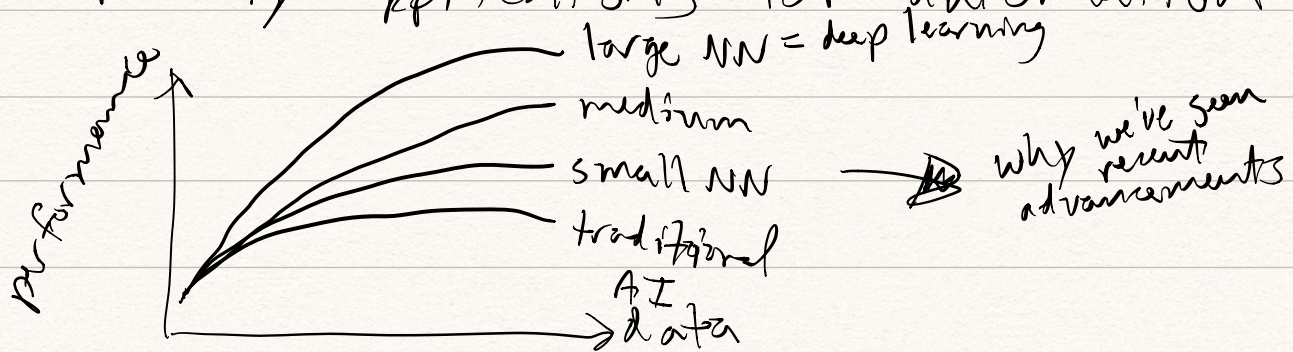
So far 99% of value has been from solving A → B problems

A ————————▷ B ==Supervised Learning==

input	output
picture	is it you? (0/1)
loan application	will you pay? (0/1)
(ad, user)	will you click? (0/1)
audio	text output
english	french
image, radar	positions of other cars
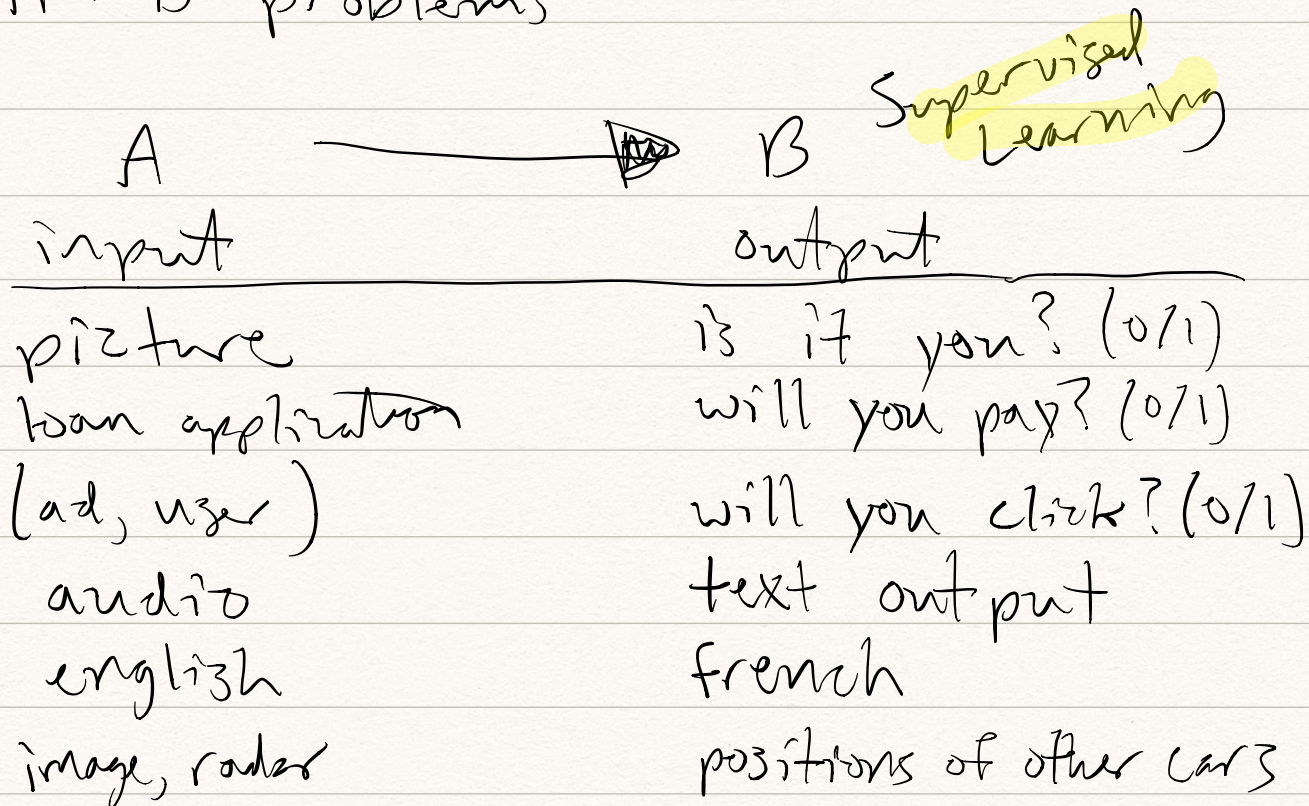
Ng: "==anything typical person can do w/ 1 sec of thought==
==we can probably now, or soon, automate=="

⤷ not perfect, but good heuristic

⤷ gave to product managers to help them identify applications for automation

large NN = deep learning
medium
small NN
traditional AI

why we've seen recent advancements

performance (y-axis) / data (x-axis)

<u>Types of AI</u>

Supervised (A ⇒ B)

transfer learning

unsupervised learning

reinforcement learning   most value

                           least value

open source

==Algorithms are not defensible, but data is==

Launching a product: → Data

virtuous cycle

don't need all data b/f launching   Users ⇄   Product
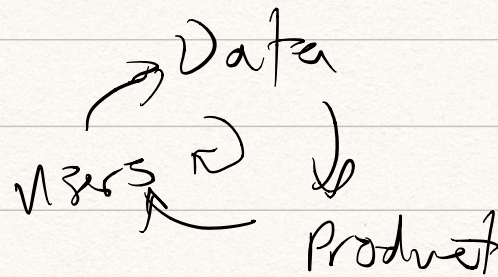
==unique, niche data is valuable==

⤷ ex: company gathered/took pictures of heads of lettuce; use to identify health
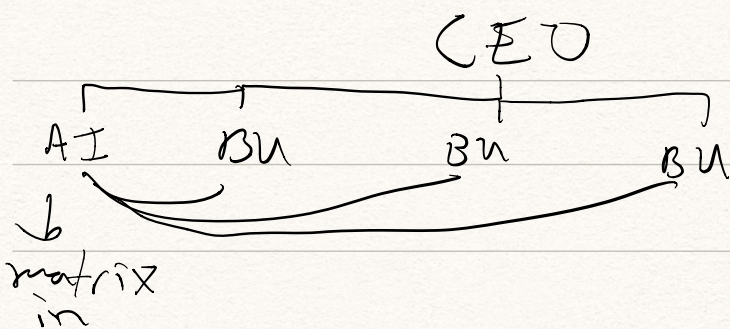
⤷ data large tech firms don't have

==Why shopping mall + website ≠ internet company==

- A/B testing

- short cycle time

- decisions made by eng. (PM;

- strategiz data acquisition
- unified data warehouse
- pervasive automation
- new job descriptions

CEO

AI   BU   BU   BU
↓
matrix
in

- matrix in AI to start
- after maturing, hire directly into BUs