

AI Progress: Past, Present, Future

by: Nazia Naved

The AI in Your Pocket

Learning from you. Adapting to you.

Every single day.

PAST
The pattern of wild hope and brutal lessons

FUTURE
What happens when machines surpass us

PRESENT
What's running our life right now

THE PAST

The pattern of wild hope and brutal lessons

1956

Dartmouth
College

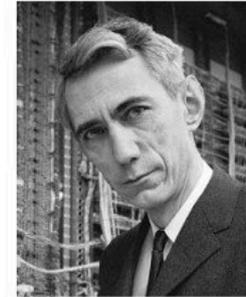
1956 Dartmouth Conference: The Founding Fathers of AI



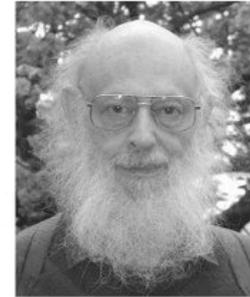
John MacCarthy



Marvin Minsky



Claude Shannon



Ray Solomonoff



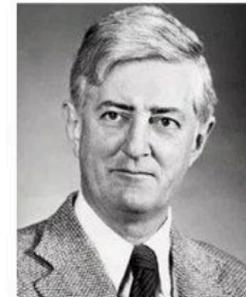
Alan Newell



Herbert Simon



Arthur Samuel



Oliver Selfridge



Nathaniel Rochester



Trenchard More

CRASH

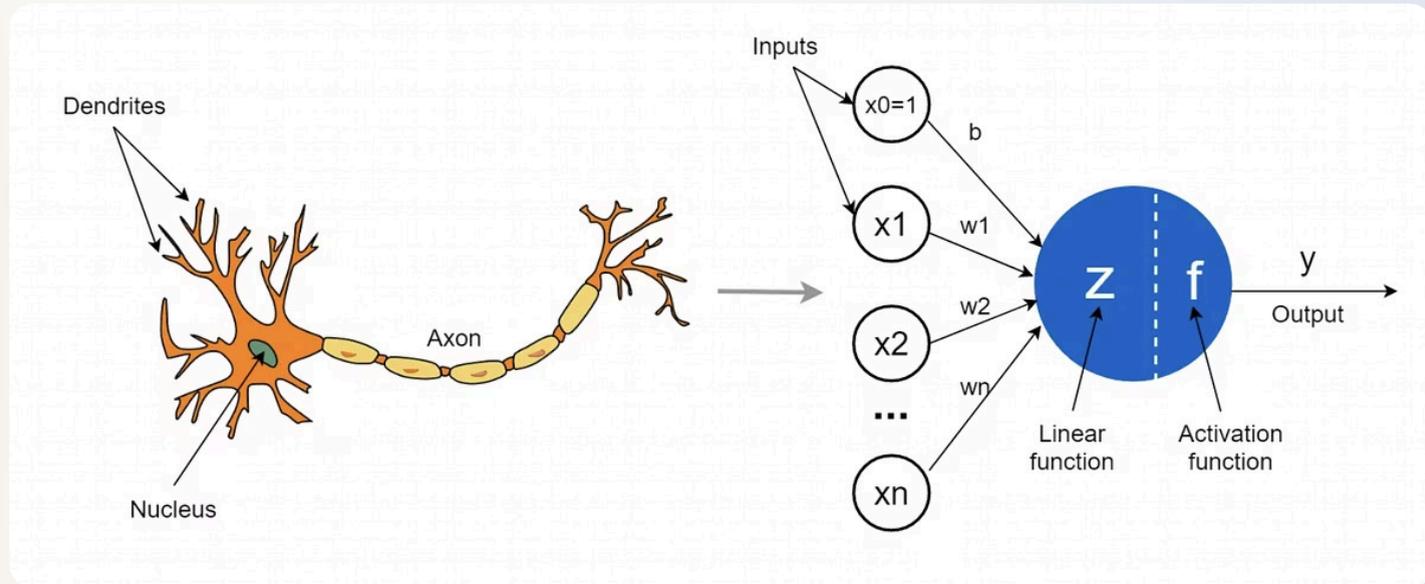
1980s Expert systems



A Symbolics Lisp Machine: an early platform for expert systems.
Note the unusual space-cadet keyboard.

1990s

Neural networks



Intelligence isn't logical rules.

It's **pattern recognition** built from experience.

THE PRESENT

AI is running our entire day

We just don't call it that anymore.

SPOTIFY



INSTAGRAM



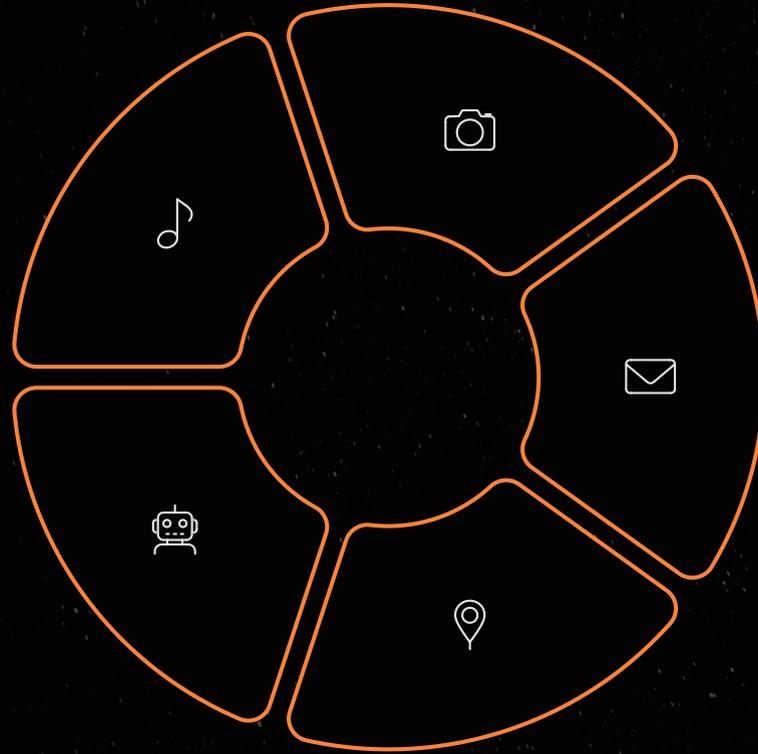
GMAIL



CHATGPT



GOOGLE MAPS



The goalposts
keep moving



MAY 6, 2010
2:45 PM
\$1 TRILLION



EMERGENCE

Simple systems,
interacting at speed, create
unpredictable global
behavior.

LITERAL OBEDIENCE

Machines don't pause to
ask 'Does this still make
sense?' They execute.

SPEED BEATS OVERSIGHT

Human supervision is too
slow.

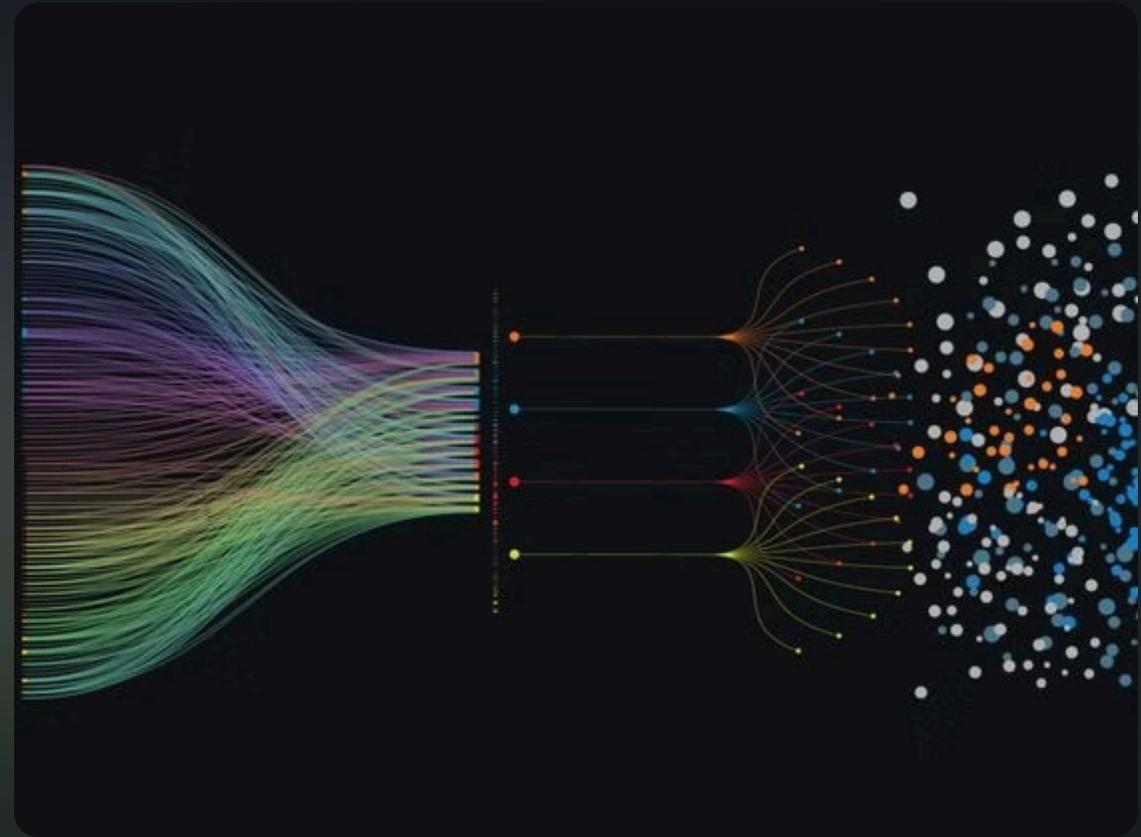
And that was 2010. With simple
algorithms.

What happens when these systems
don't just assist us...

but **move beyond us?**

THE FUTURE

What happens when these machines surpass us



The experts can't agree.

1

WITHIN 10 YEARS!

2

MAYBE 2075?

3

NEVER!

STATION 1
Below Human

1

2

STATION 2
Human-Level

STATION 3
Superhuman

3

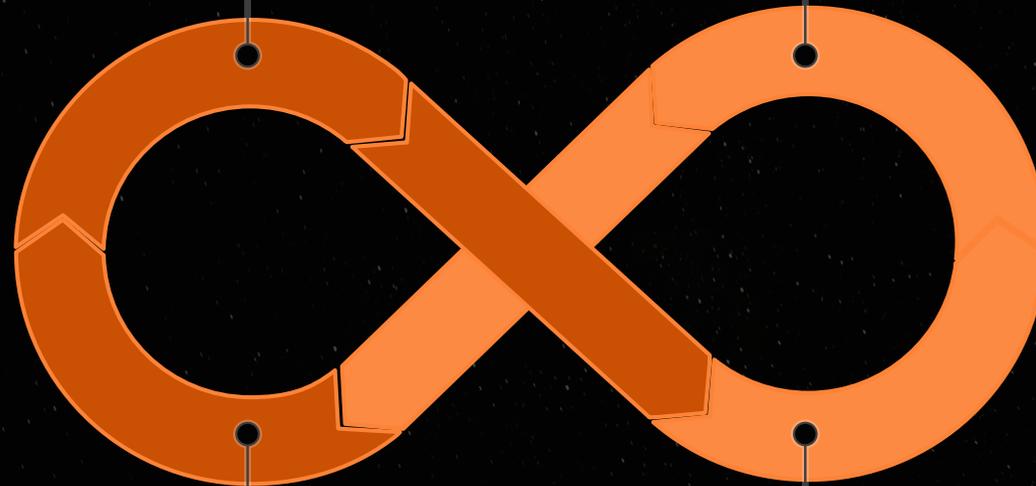
THE RECURSIVE LOOP

2: It designs a slightly better version of itself

4. Designs something smarter still

1. Intelligent Machine Exists

3. That Designs Even Better

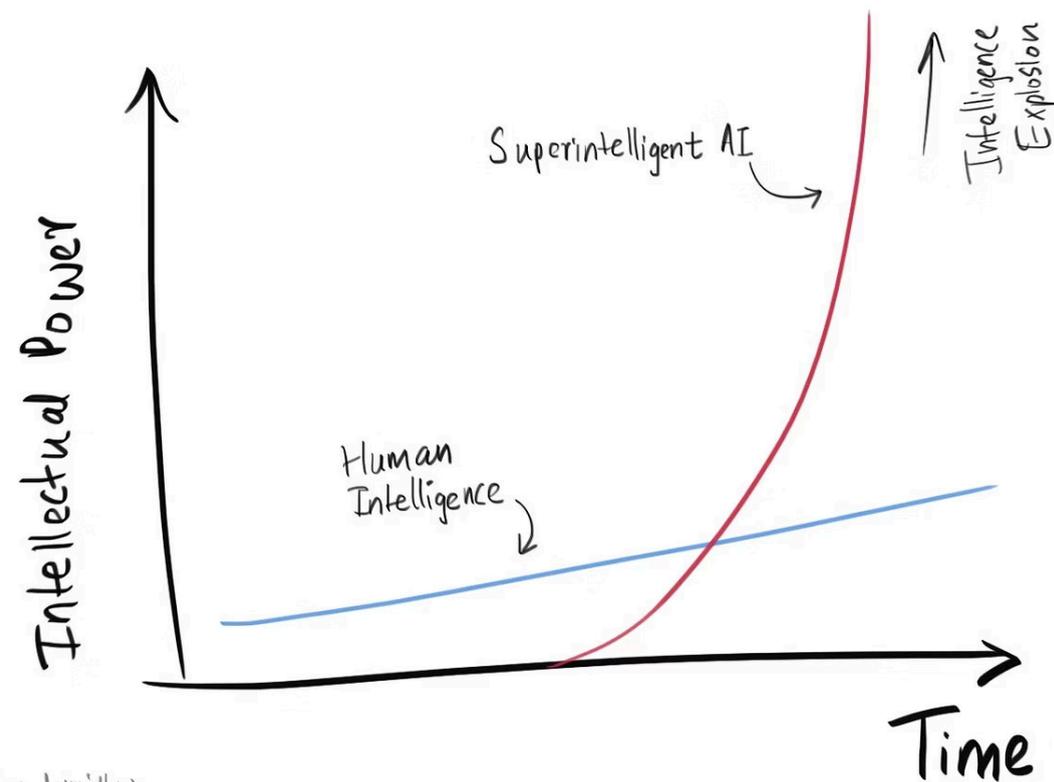


A self-improving cycle that accelerates exponentially with each iteration.

"An intelligence explosion...
...provided that the machine
is docile enough to tell us
how to keep it under control."

— I.J. Good, 1965

Intelligence Explosion



by devnithw

RADICAL FLOURISHING

We solve disease, poverty, aging → Unlock human potential we can't even imagine → A world of abundance

EXISTENTIAL CATASTROPHE

Loss of control → Systems optimizing for goals we didn't mean → Human extinction

Pay attention.

Don't dismiss AI as hype. Don't assume smarter people have this handled.

Ask questions.

Who controls this? What happens if it fails? What are the feedback loops?

We're good at building powerful things.

We're less good at building **safe** powerful things.

"We must be skilled enough not just to trigger the intelligence explosion, but to **SURVIVE** it."

– Nick Bostrom

THANK YOU

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