



Salute, Parco e sviluppo

27 marzo 2024 - dalle 14:30 alle 17:30

Sala Piemonte - Centro Congressi Unione Industriali Torino

Il ruolo dell'intelligenza artificiale per la cura e la ricerca medica

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Full Professor of Biomedical Engineering
Vice Rector for the Strategic Plan

Editor-in-Chief Computer Methods and
Programs in Biomedicine

Co-Founder AEQUIP Srl



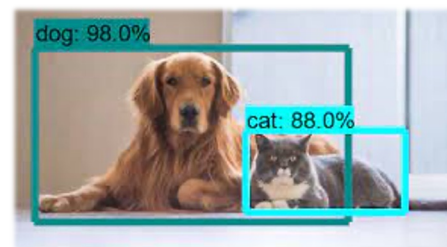
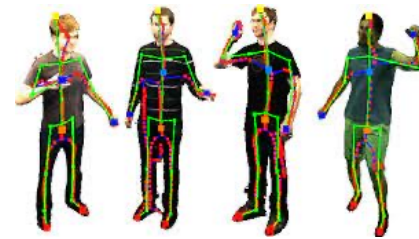
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Intelligenza Artificiale



Artificial
Intelligence
A.I.

Applicazioni



1956 Dartmouth Conference: The Founding Fathers of AI



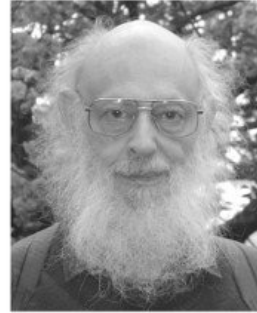
John McCarthy



Marvin Minsky



Claude Shannon



Ray Solomonoff



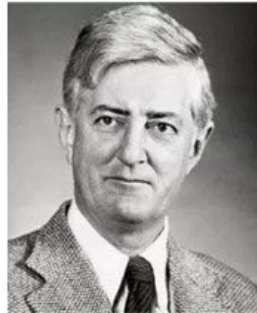
Alan Newell



Herbert Simon



Arthur Samuel



Oliver Selfridge



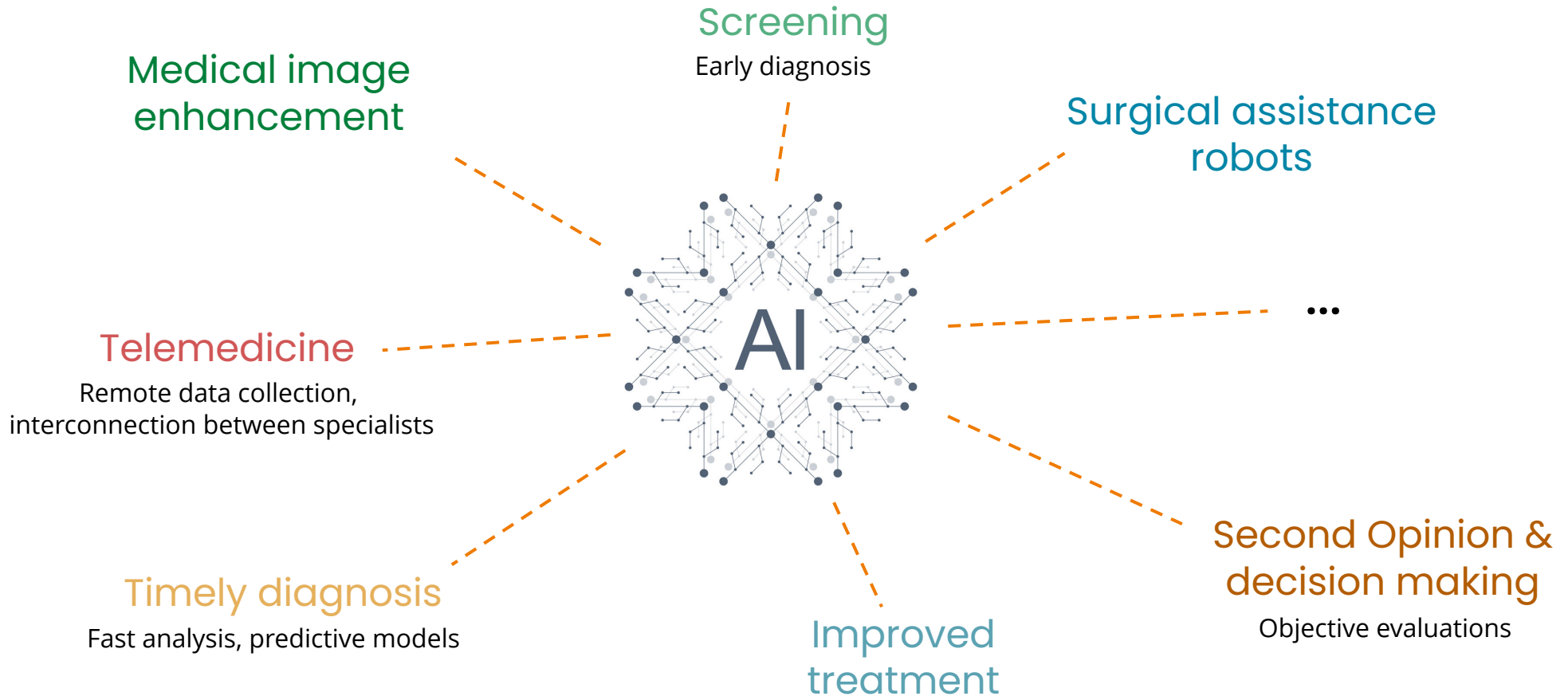
Nathaniel Rochester

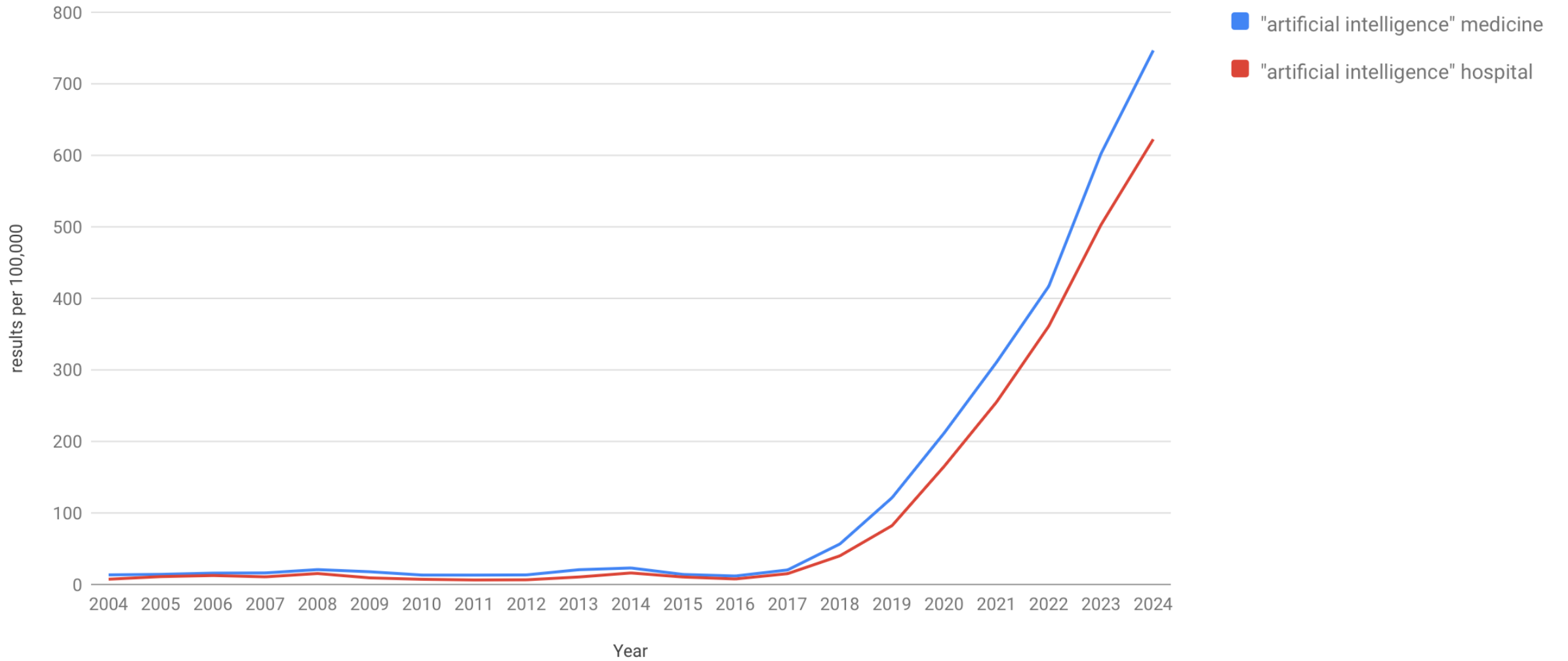


Trenchard More

«The study is to proceed on the basis of the conjecture that every aspect of learning or any other feature of intelligence can in principle be so precisely described that a machine can be made to simulate it.»

Applicazioni in medicina

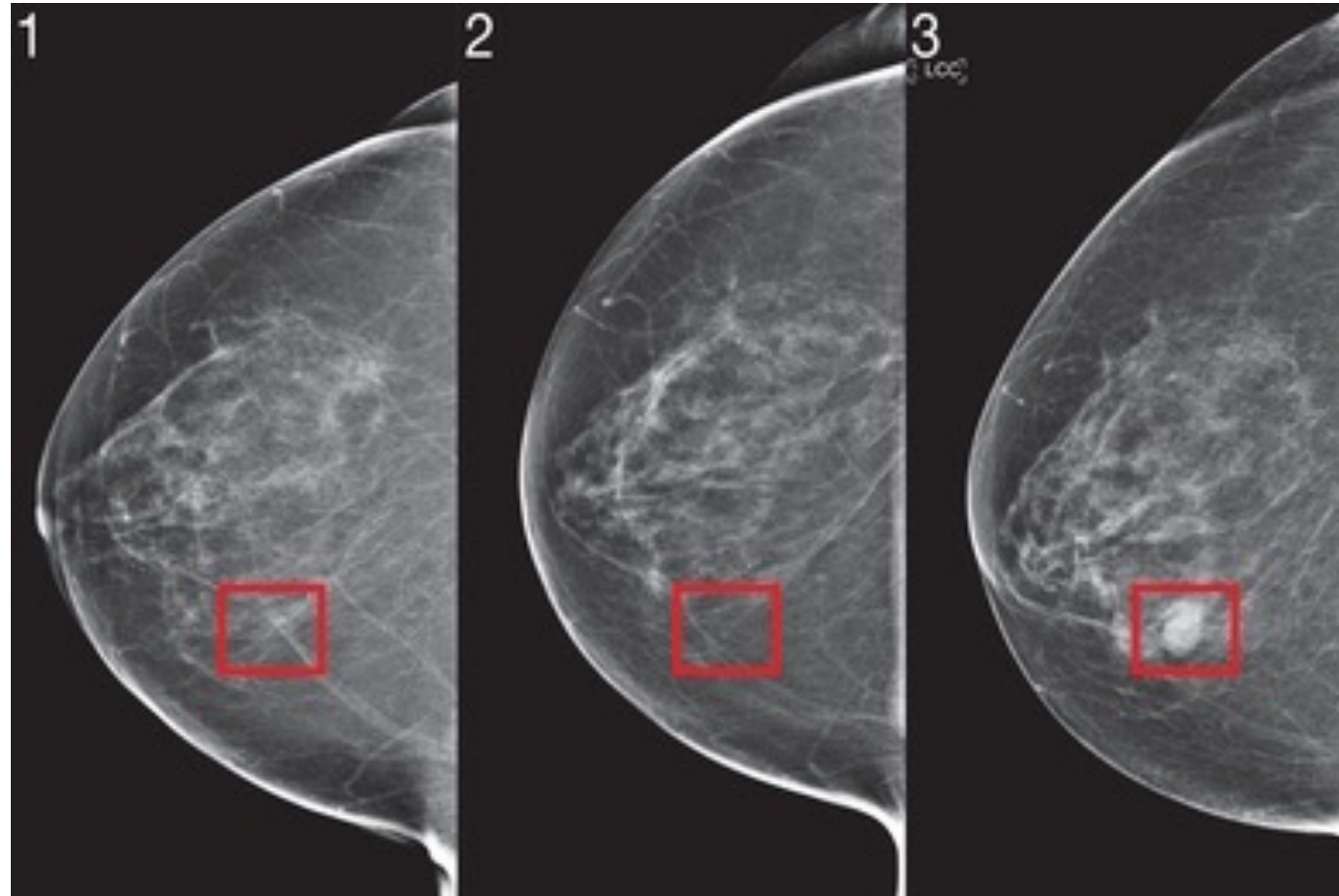




Scenario 1 – Aspettative irrealistiche

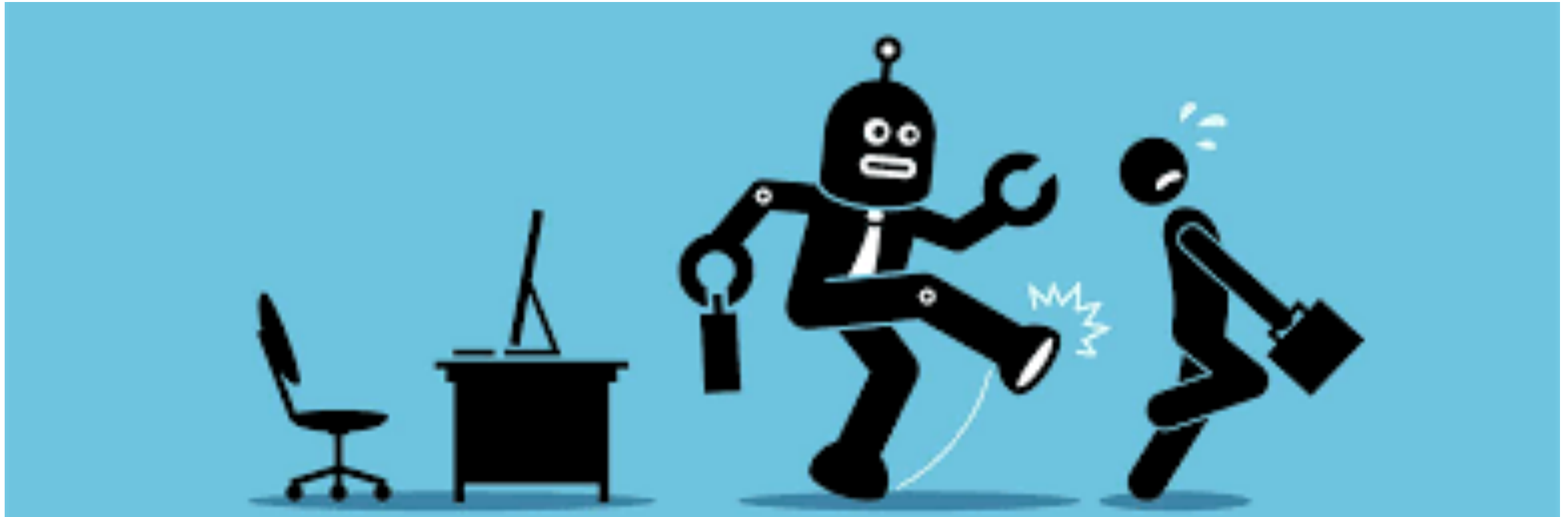


Robust artificial intelligence tools to predict future cancer



<https://news.mit.edu/news-clip/cnn-207>

Scenario 2 - Paura



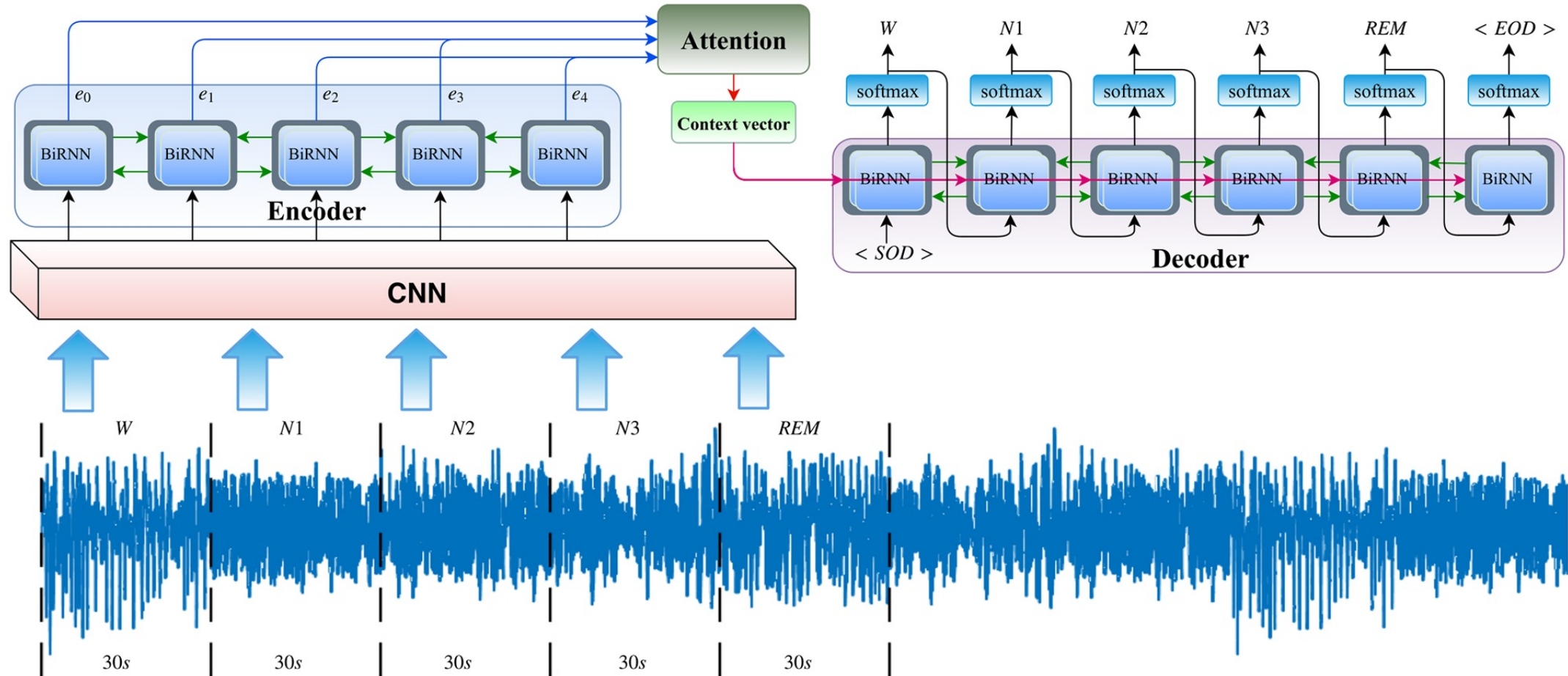
Macchine o algoritmi saranno più intelligenti di noi?



Scenario 3 - Disillusione

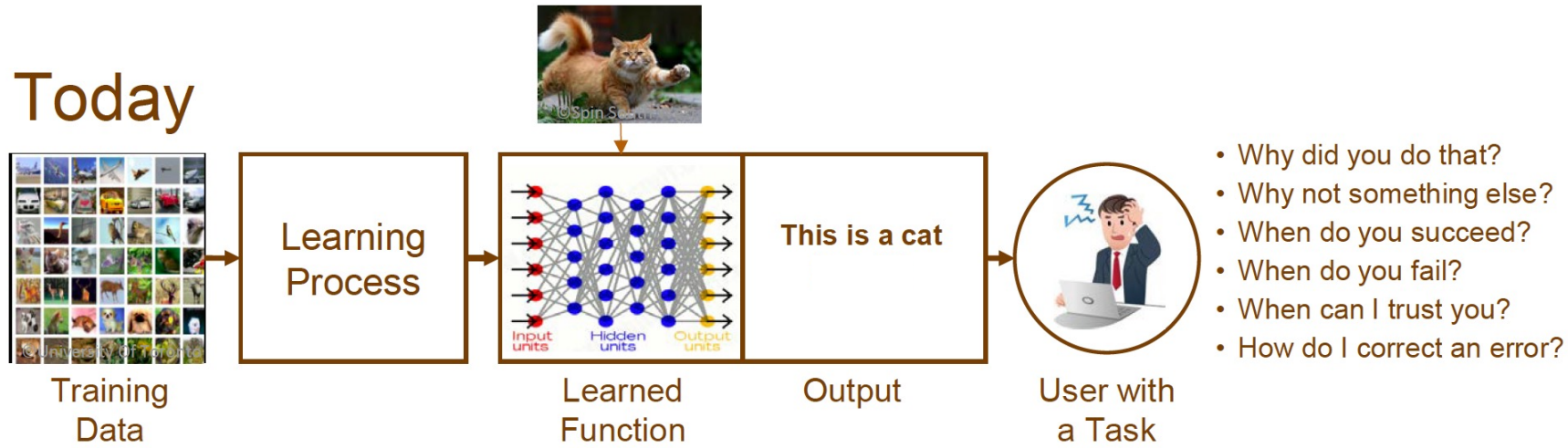


Controesempio: analisi del sonno

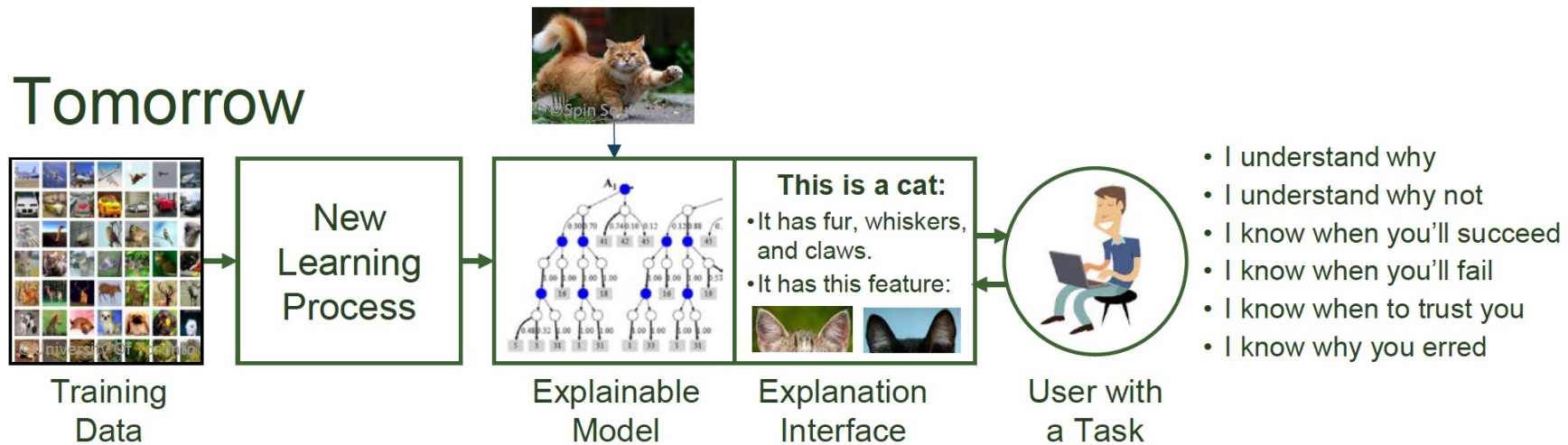


Scenario 4 – Dimmi perché

Today



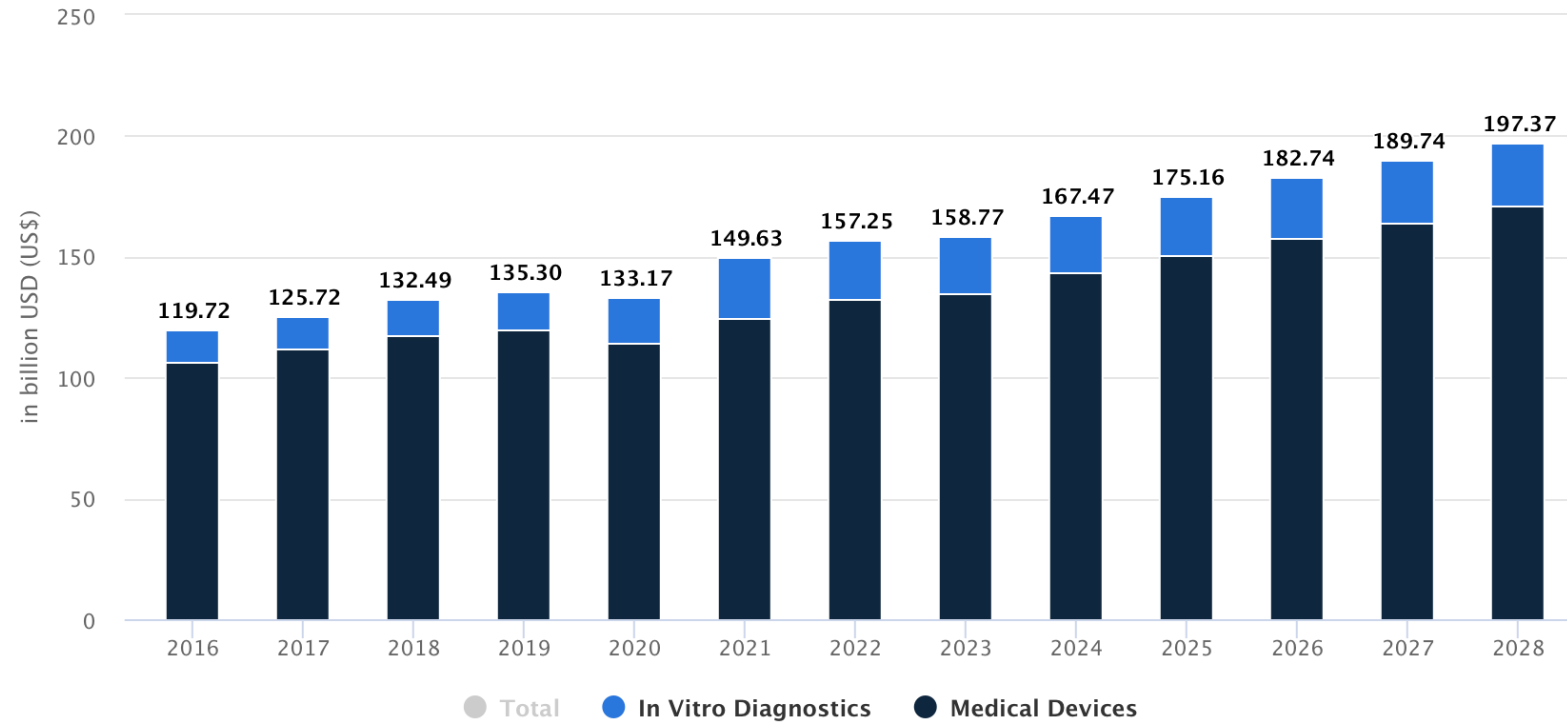
Tomorrow



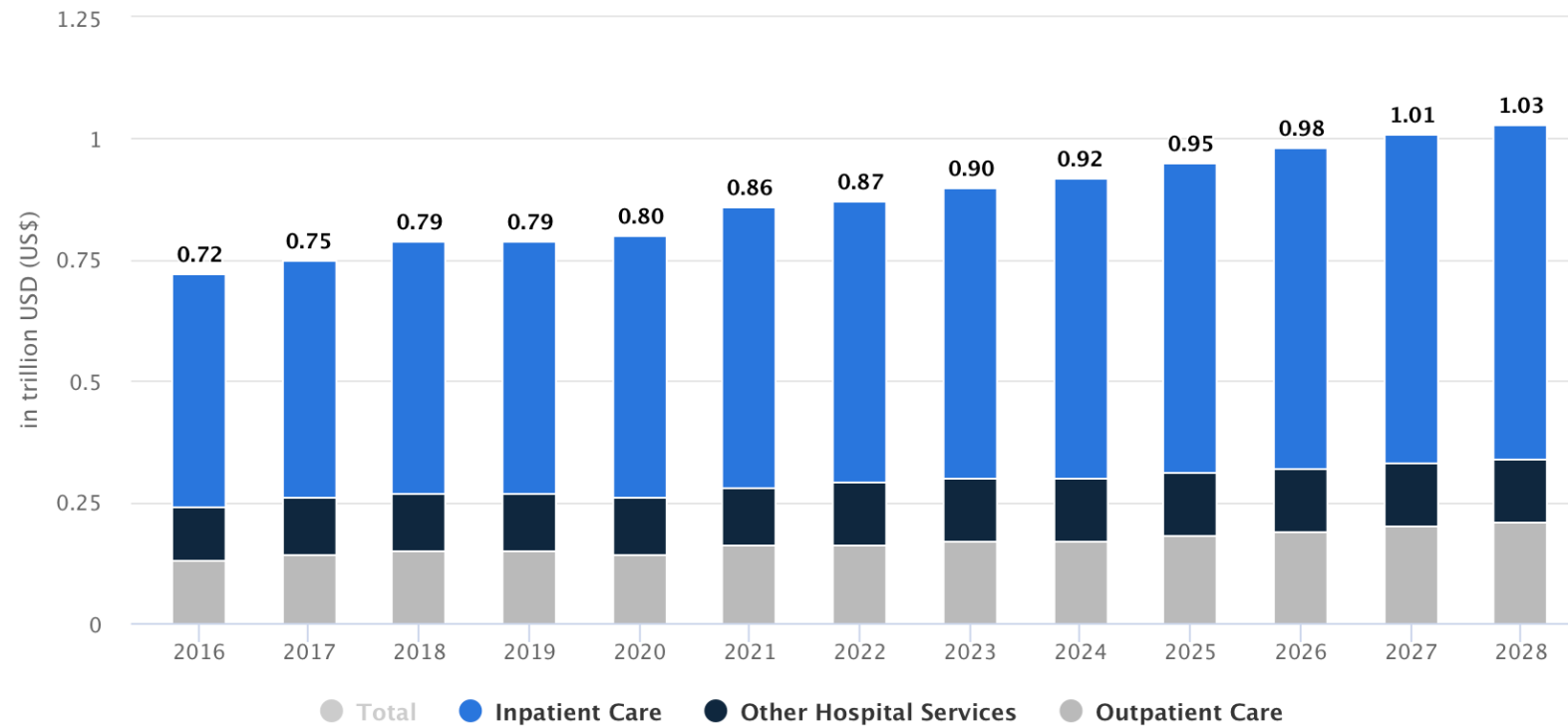


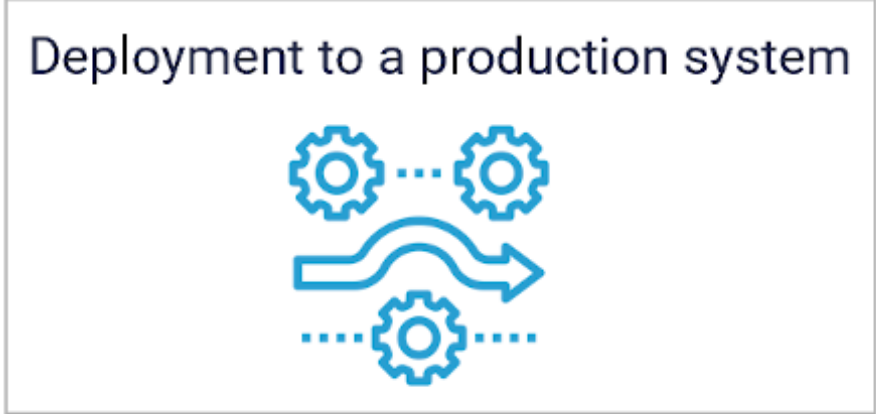
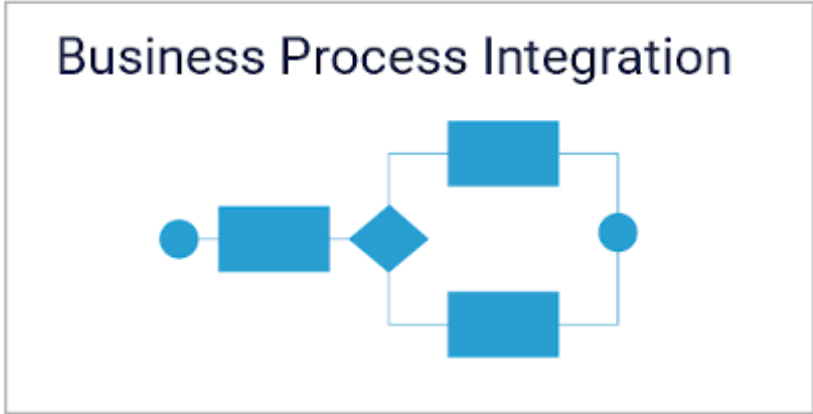
- Il cervello umano apprende moltissimo con pochissimi dati
- Il cervello umano generalizza senza bisogno di particolari regole o modelli
- In caso di cambiamenti anche importanti, gli umani si adattano con pochissimi esempi
- Simulare ragionamenti complessi è difficile
- Giochiamo a scacchi, perdiamo, ma con un'efficienza energetica 1000 volte superiore ad una macchina

MedTech Revenue (EU)



Hospital Revenue (EU)





Requires trust



Requires understanding



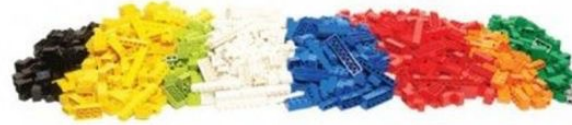
Requires automation



DATA



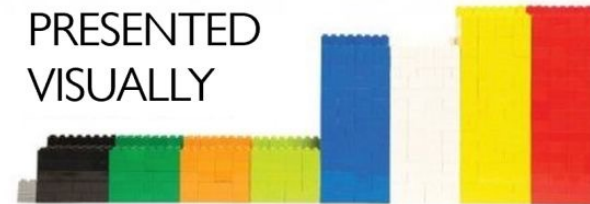
SORTED



ARRANGED



PRESENTED
VISUALLY



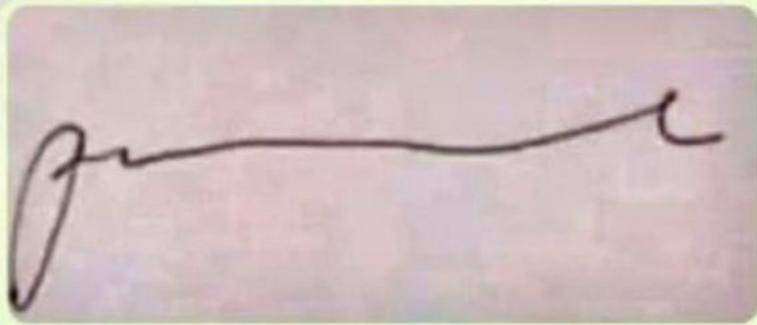
EXPLAINED
WITH A STORY



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di Torino

Hi Doctor 4:25 AM ✓✓

Hi 4:25 AM



how to read this? 4:26 AM ✓✓

It's paracetamol 4:26 AM



how about this? 4:26 AM ✓✓

amoxicillin... 3x a day 4:27 AM