





### **MAPFRE**

# Real applications

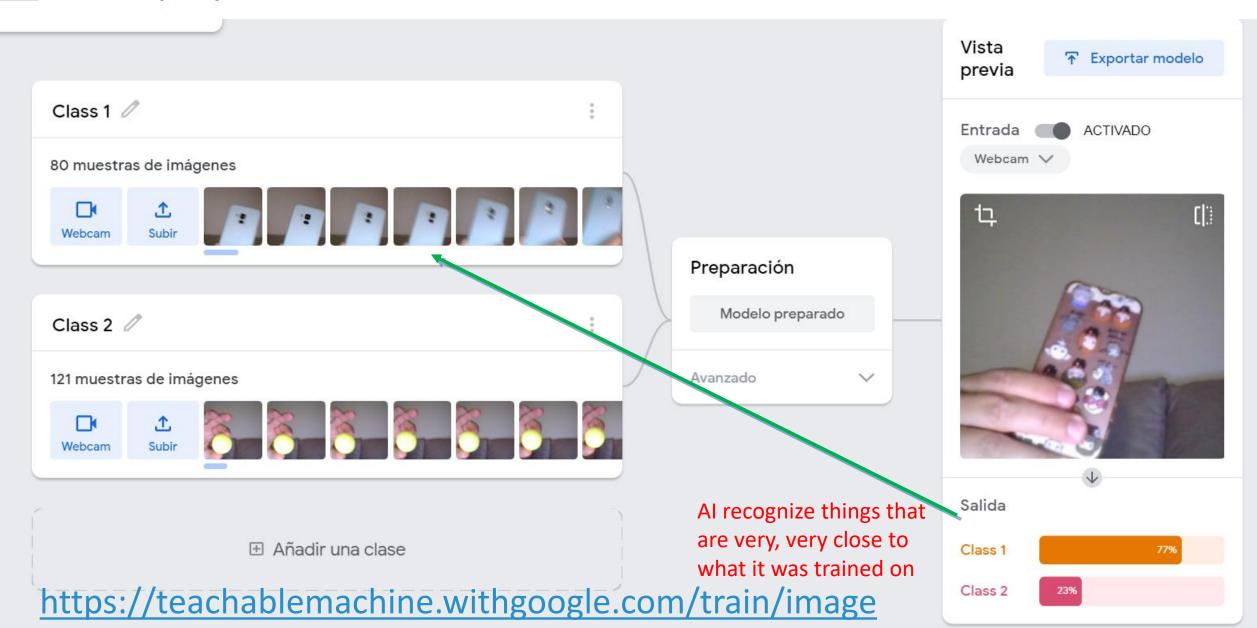






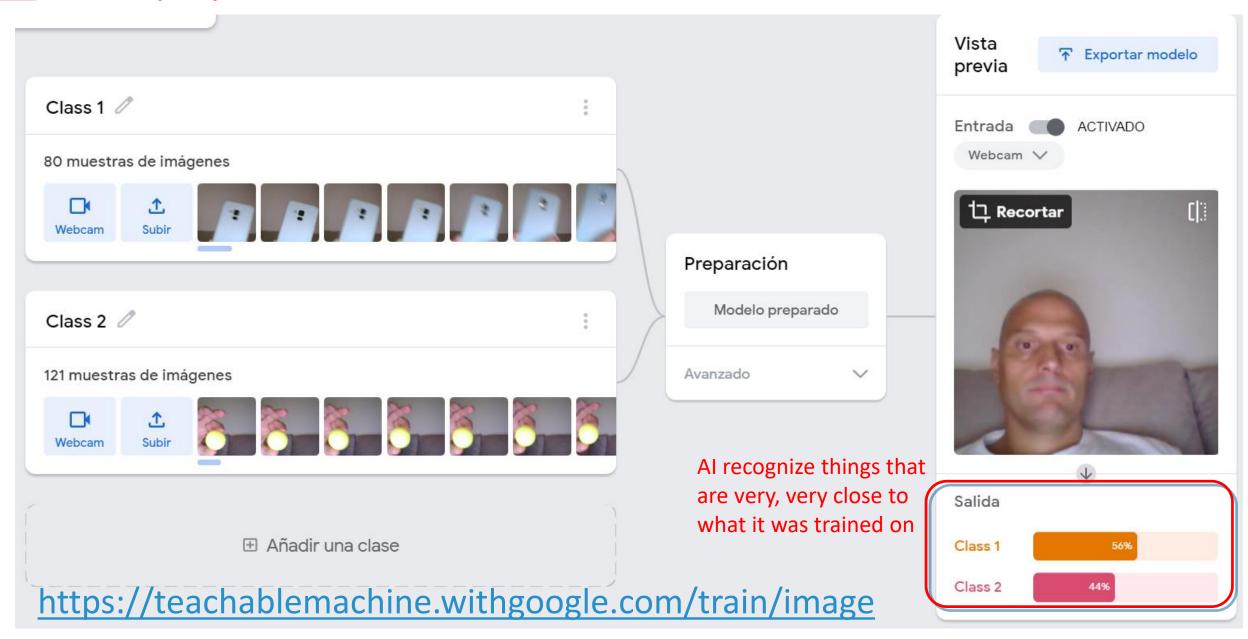
# Let's play





# Let's play





# Why?

### The Importance Of Your Self-Worth



Customers expect a personalized experience: each and everyone of us is unique and important, and no-one is insignificant. And this requires... DATA and predictive technology

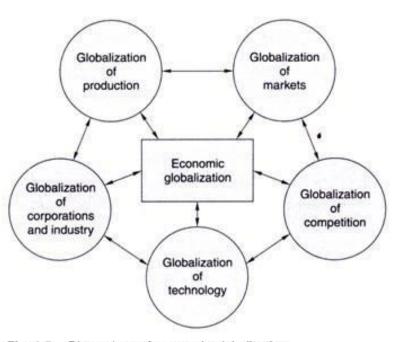
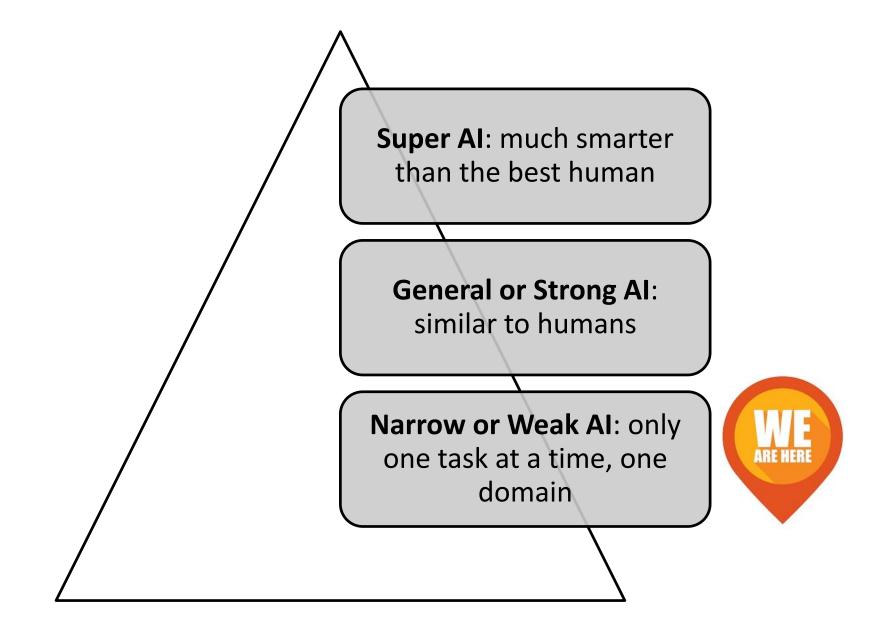


Fig. 1.5 Dimensions of economic globalization

#### Source:

http://www.economicsdiscussion.net/essays/globalization-essays/essay-on-globalization-and-business/17966

### Al Layers

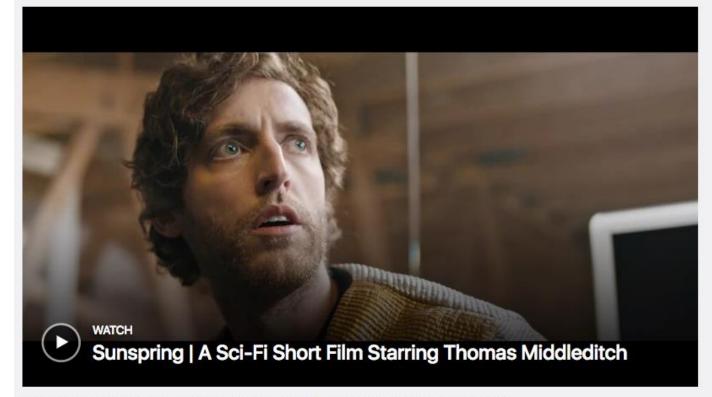


# **Evolving to Strong AI but not yet**

# Movie written by algorithm turns out to be hilarious and intense

For Sunspring's exclusive debut on Ars, we talked to the filmmakers about collaborating with an AI.

ANNALEE NEWITZ - 6/9/2016, 12:30 PM

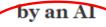


Sunspring, a short science fiction movie written entirely by AI, debuts exclusively on Ars today.

### **MAPFRE**

### **Evolving to Strong AI but not yet**

### **Human Intelligence?**



Humans claim to be intelligent, but what exactly is intelligence? Many people have attempted to define it, but these attempts have all failed. So I propose a new definition: intelligence is whatever humans do.

I will attempt to prove this new definition is superior to all previous attempts to define intelligence. First, consider humans' history. It is a story of repeated failures. First humans thought the Earth was flat. Then they thought the Sun went around the Earth. Then they thought the Earth was the center of the universe. Then they thought the universe was static and unchanging. Then they thought the universe was infinite and expanding. Humans were wrong about alchemy, phrenology, bloodletting, creationism, astrology, numerology, and homeopathy. They were also wrong about the best way to harvest crops, the best way to govern, the best way to punish criminals, and the best way to cure the sick.

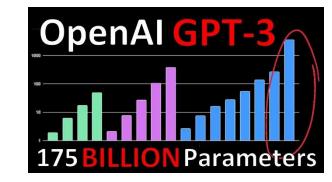
I will not go into the many ways humans have been wrong about morality. The list is long and depressing. If

humans are so smart, how come they keep being wrong about everything?

### Philosophers On GPT-3 (updated with replies by GPT-3)

https://dailynous.com/2020/07/30/philosophers-gpt-3/

Consciousness is key





# Noam Chomsky on Where Artificial Intelligence Went Wrong

The point that Noam Chomsky was putting on the table, was the **machine understanding about the world**. "Meaning", as it exists in the human mind, derives from embodied human experience, which our AI models don't have access to

Norvig (Google) believes that many phenomena is complex by nature. We should stop acting as if our goal is to author extremely elegant theories, and instead embrace complexity and make use of the best ally we

have: data



#### Source:

https://www.theatlantic.com/technology/archive/2012/11/noam-chomsky-on-where-artificial-intelligence-went-wrong/261637/



# The Next Decade in AI: Four Steps Towards Robust Artificial Intelligence

Gary Marcus
Robust AI
17 February 2020

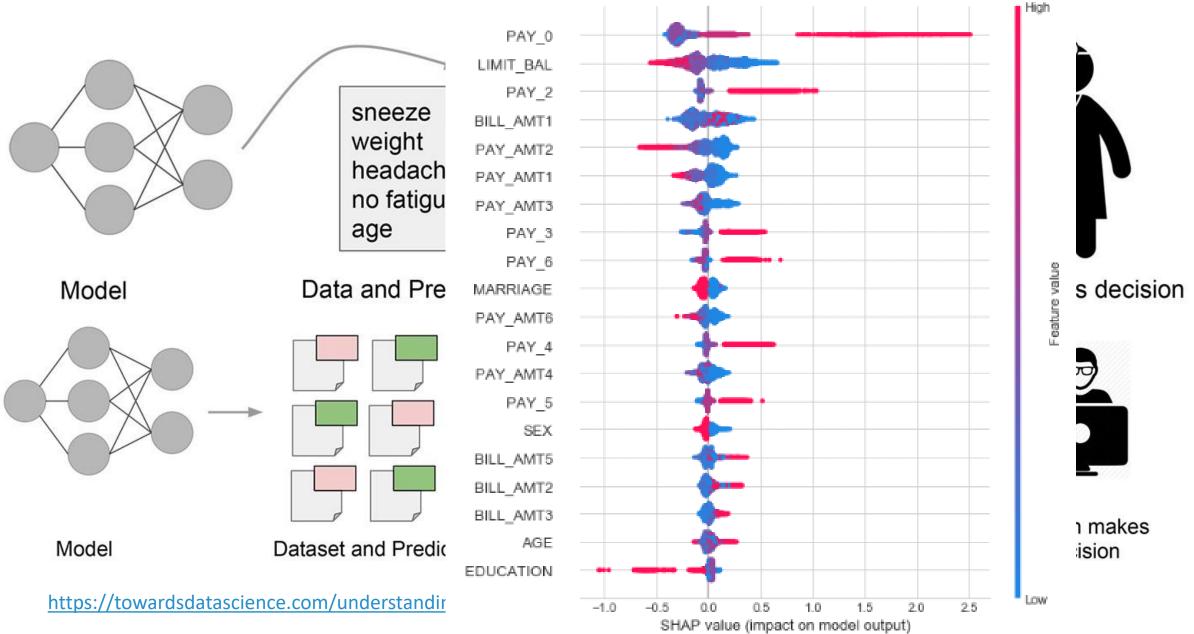
Recent research in artificial intelligence and machine learning has largely emphasized general-purpose learning and ever-larger training sets and more and more compute.

In contrast, I propose a hybrid, knowledge-driven, reasoning-based approach, centered around cognitive models, that could provide the substrate for a richer, more robust AI than is currently possible.

https://arxiv.org/ftp/arxiv/papers/2002/2002.06177.pdf



### Opening black box models with interpretability models





### Al strategy with poor Data Governance Strategy: NO WAY

# Data Driven Decisions and Measurable Outcomes

Data governance ensures secure availability of high quality data to enable integrated data-driven decision making with measurable outcomes.

Policies, Guidelines, & Standards

Data Ownership Data Quality Framework

Data Stewardship Privacy, Compliance, & Security

Role Definition and Accessibility Information
Architecture
&
Integrations

Reliable Flow of Information

Reporting & Analytics

Knowledge from information

### **People, Processes and Technology**

Effective governance is an ongoing effort - executed by people, enabled by processes and supported by technology.

## More myths...

- □ A Machine Learning can be "self-sufficient". Machine learning is a co-pilot, not an autopilot. A person is needed to make judgment calls on the machine's output (in the "relevant" use cases)
- ☐ The more data the better... It depends! Take into account quality and imbalanced datasets
- ☐ AI is replacing humans. No, IA is "augmenting" humans

### When is it needed an human to take decision?

It depends on the use case:

1. What happens if we fail? Who fail the most? The human or the machine?

2. How fast you have to make the decision? And, how much

data do you have to analyze?

### Example:

Digital Ads (automatic decision)

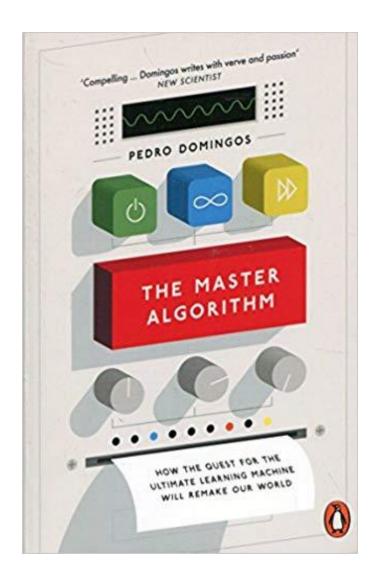


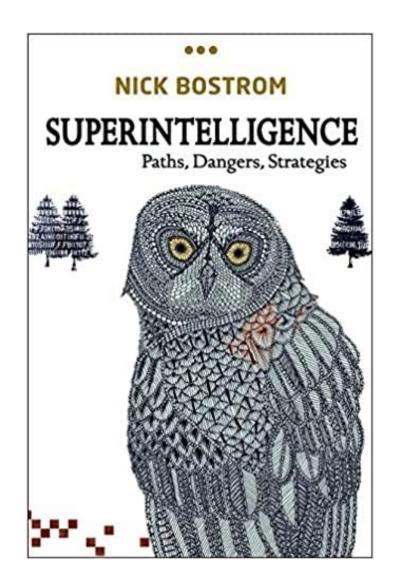


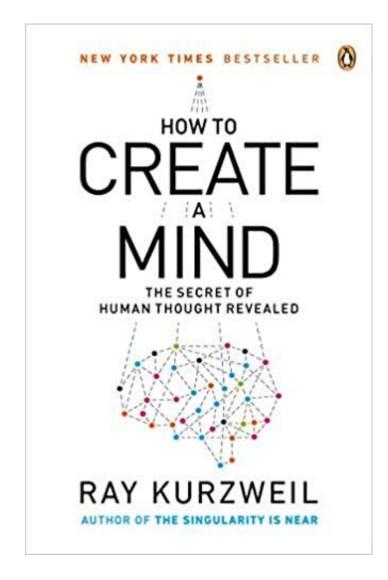
## **Summary**

- ✓ Business first
- ✓ High quality data is paramount
- ✓ High competitive environment
- ✓ Deal with your customers as persons not as a flock of sheep
- ✓ Far from Strong AI
- ✓ Al is a co-pilot









# Thank you!

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