

ARTIFICIAL INTELLIGENCE

CHOOSE WELL

SEPARATING THE BULLSH\*T FROM THE GOOD SH\*T

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# WHAT ARE WE DOING TODAY?

1

What's AI?

2

AI in context

3

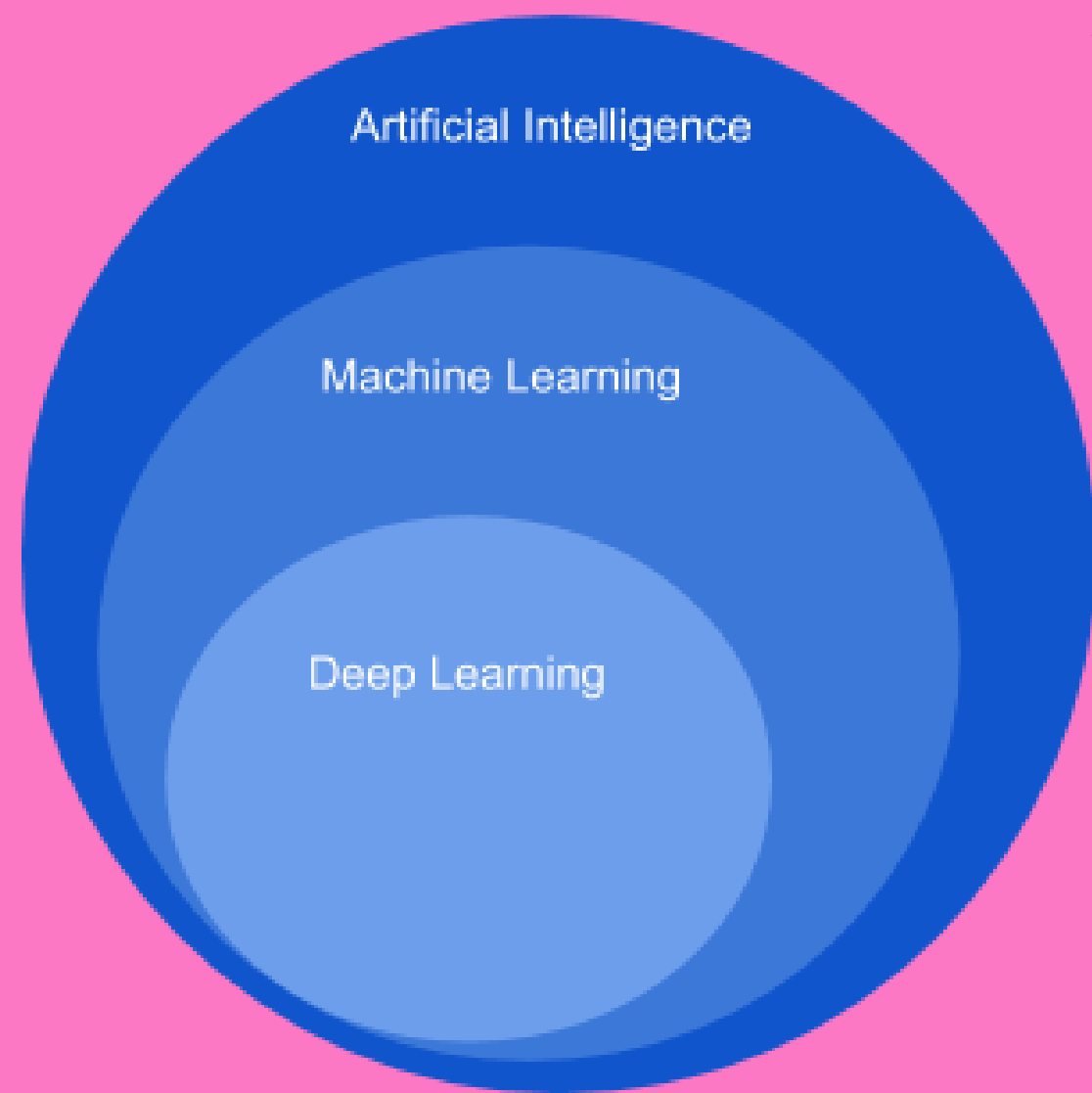
AI bullsh\*t

4

AI good sh\*t

5

What that means for you



# WHAT'S AI?

A NO AGI

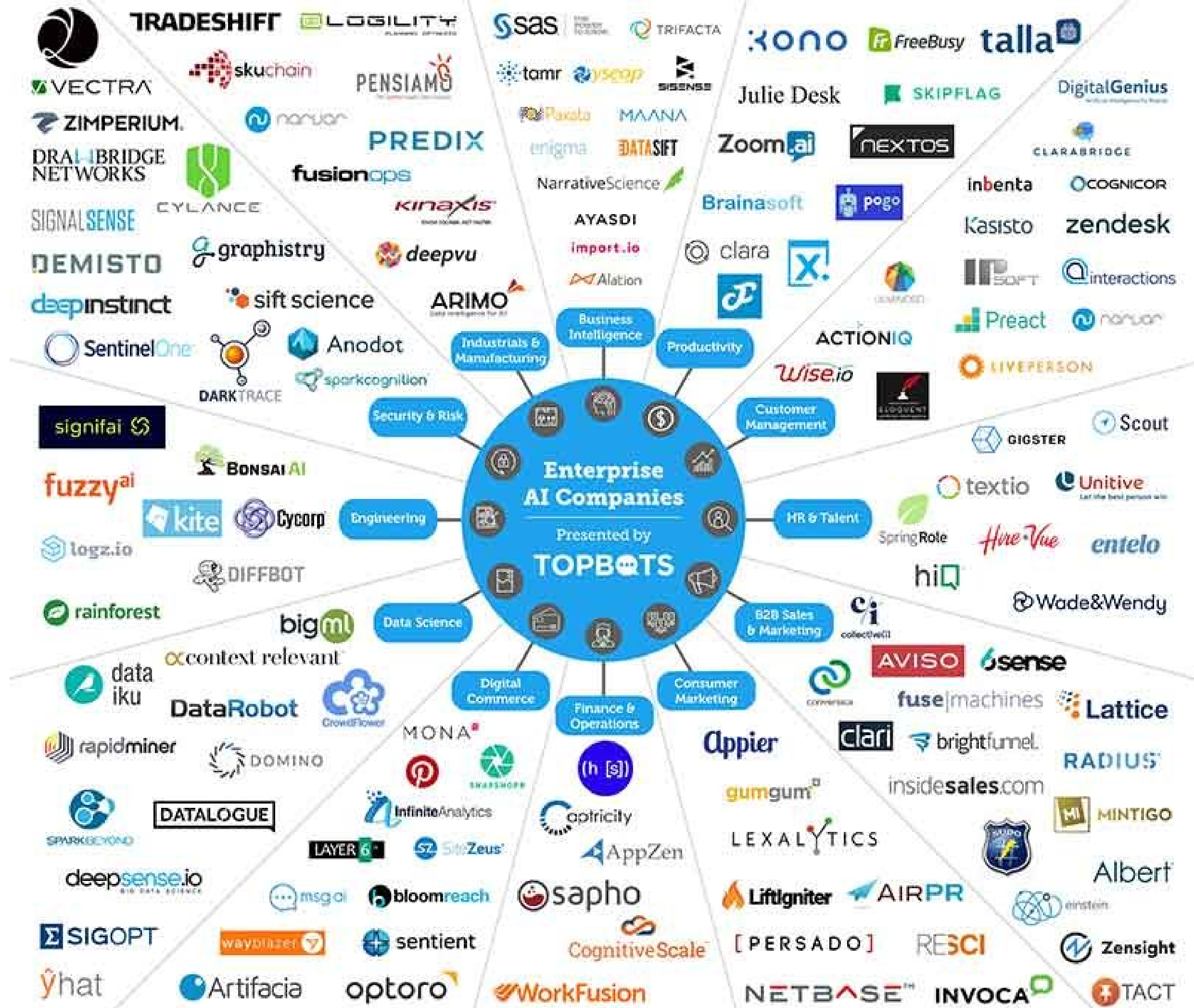
B MULTI-DISCIPLINARY

C FAKE PR

D OUR FUTURE

E NOT EVIL

F DATA, DATA, DATA





# AI TECHNOLOGIES

**STRONG / GENERAL AI**



**WEAK / SPECIALIZED KI**

**CLASSIC / SYMBOLIC**

DECISION TREES

TABLE BASED  
AGENTS

SEARCH

EXPERT SYSTEMS

RULE BASED SYSTEMS

SYMBOLIC LOGIC

EXPERT SYSTEMS  
WITH NN INPUT

DECISION TREE  
LEARNING

MONTE CARLO  
SEARCH WITH NN

XGBOOST

MIXED ALGORITHMS

NEURAL NETWORKS  
LSTM

LINEAR REGRESSION

CONVOLUTIONAL NN

NAIVE BAYES

ATTENTION

RANDOM FOREST

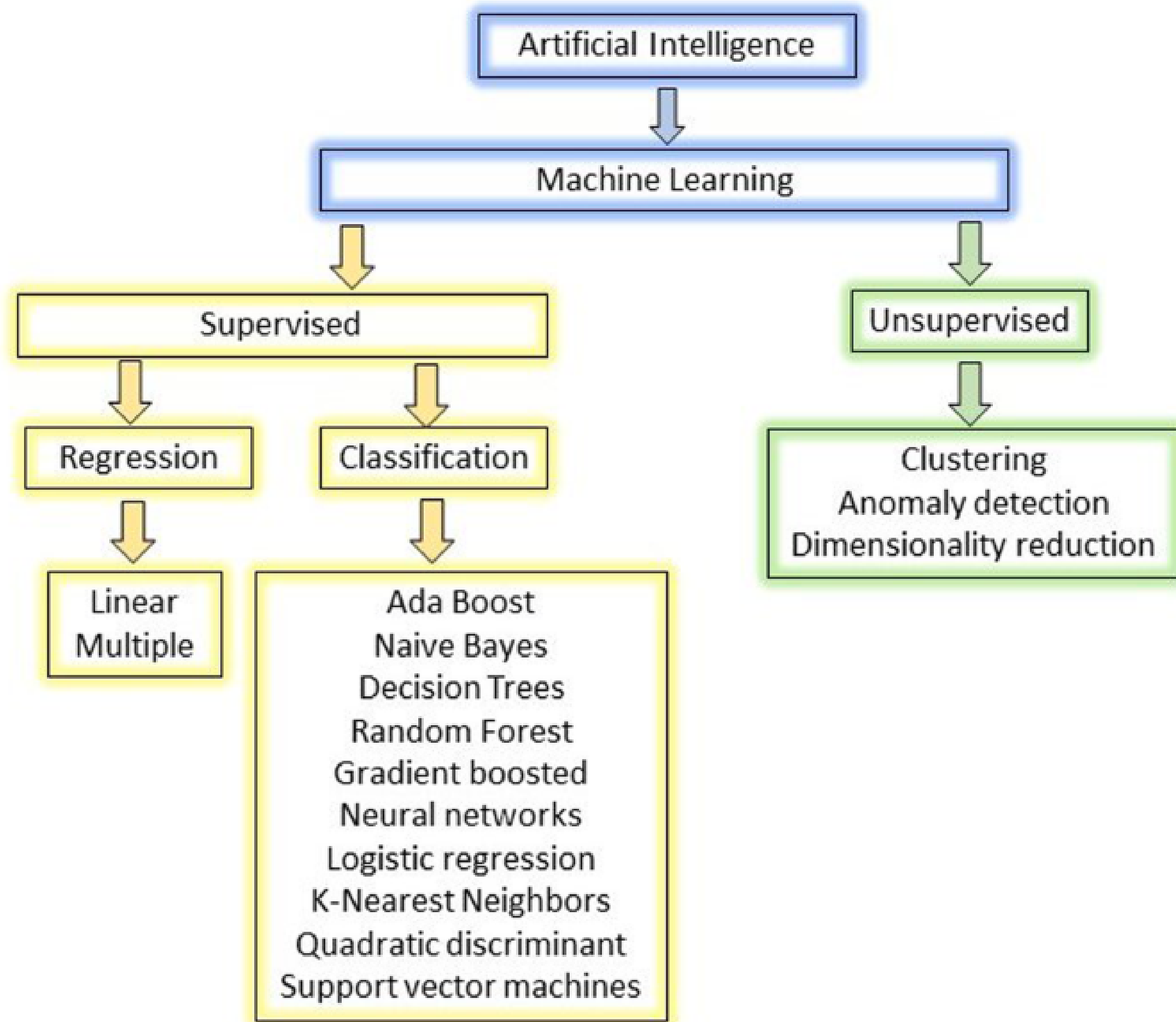
AUTOENCODER

Q LEARNING

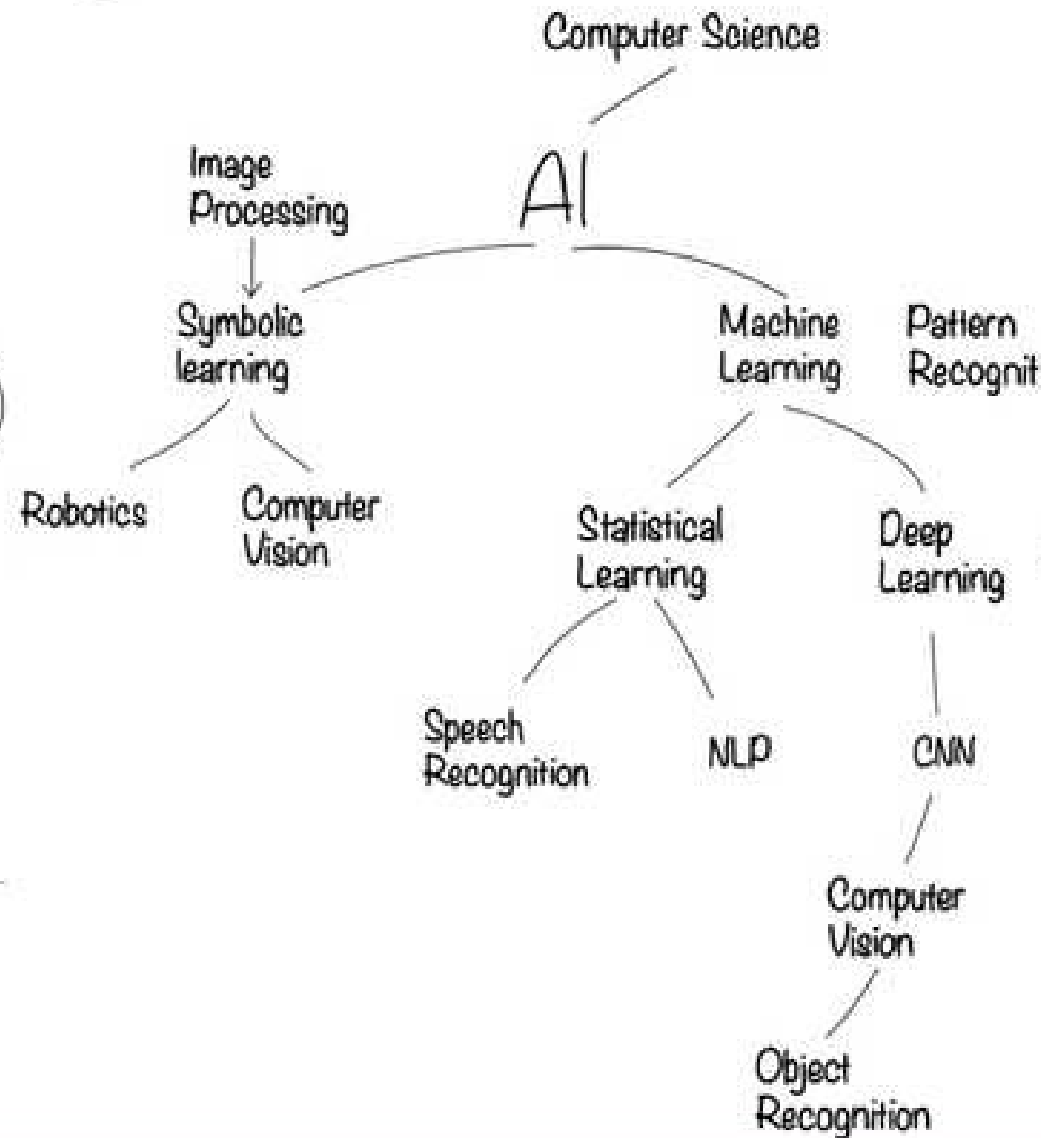
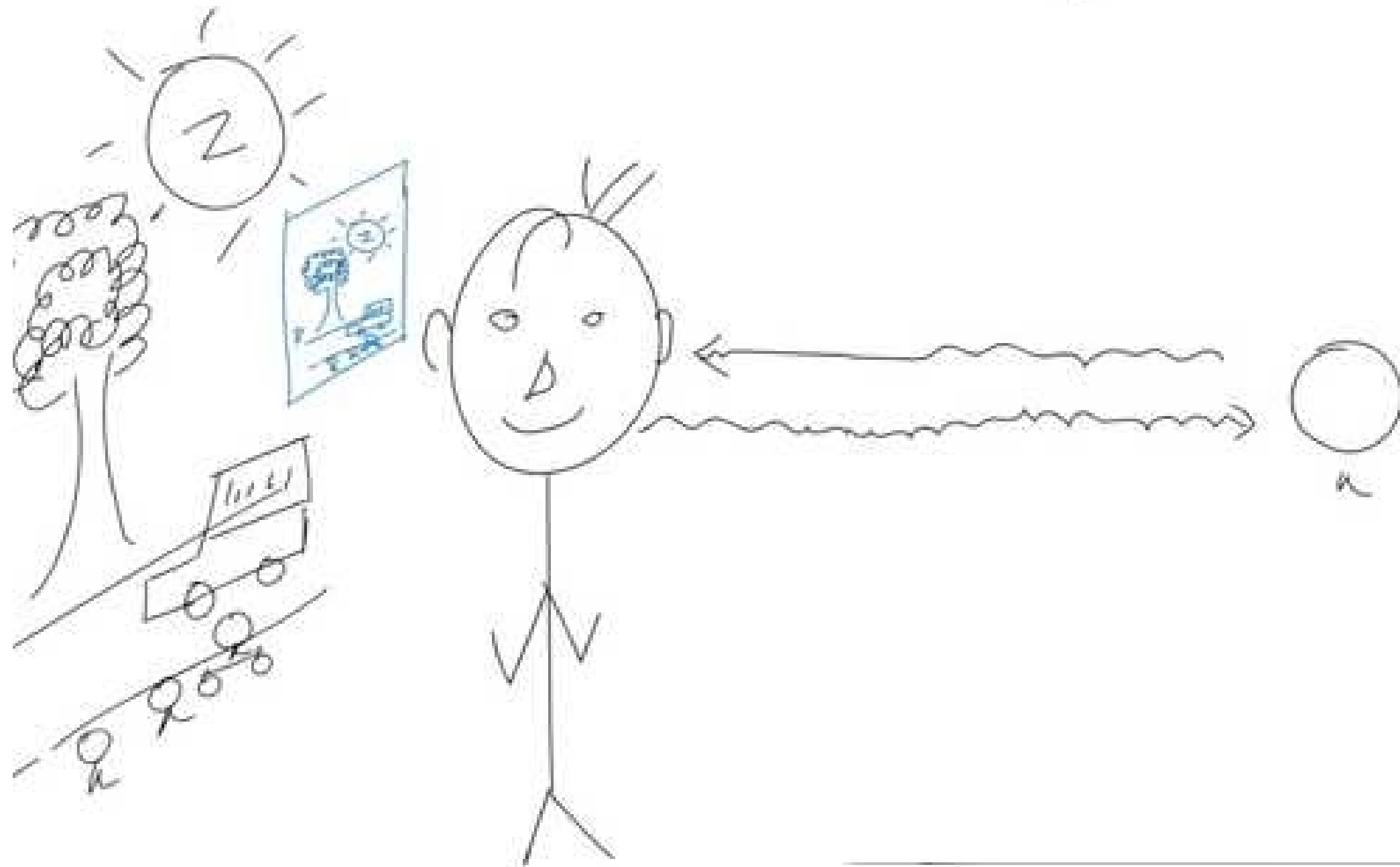
**DEEP LEARNING**

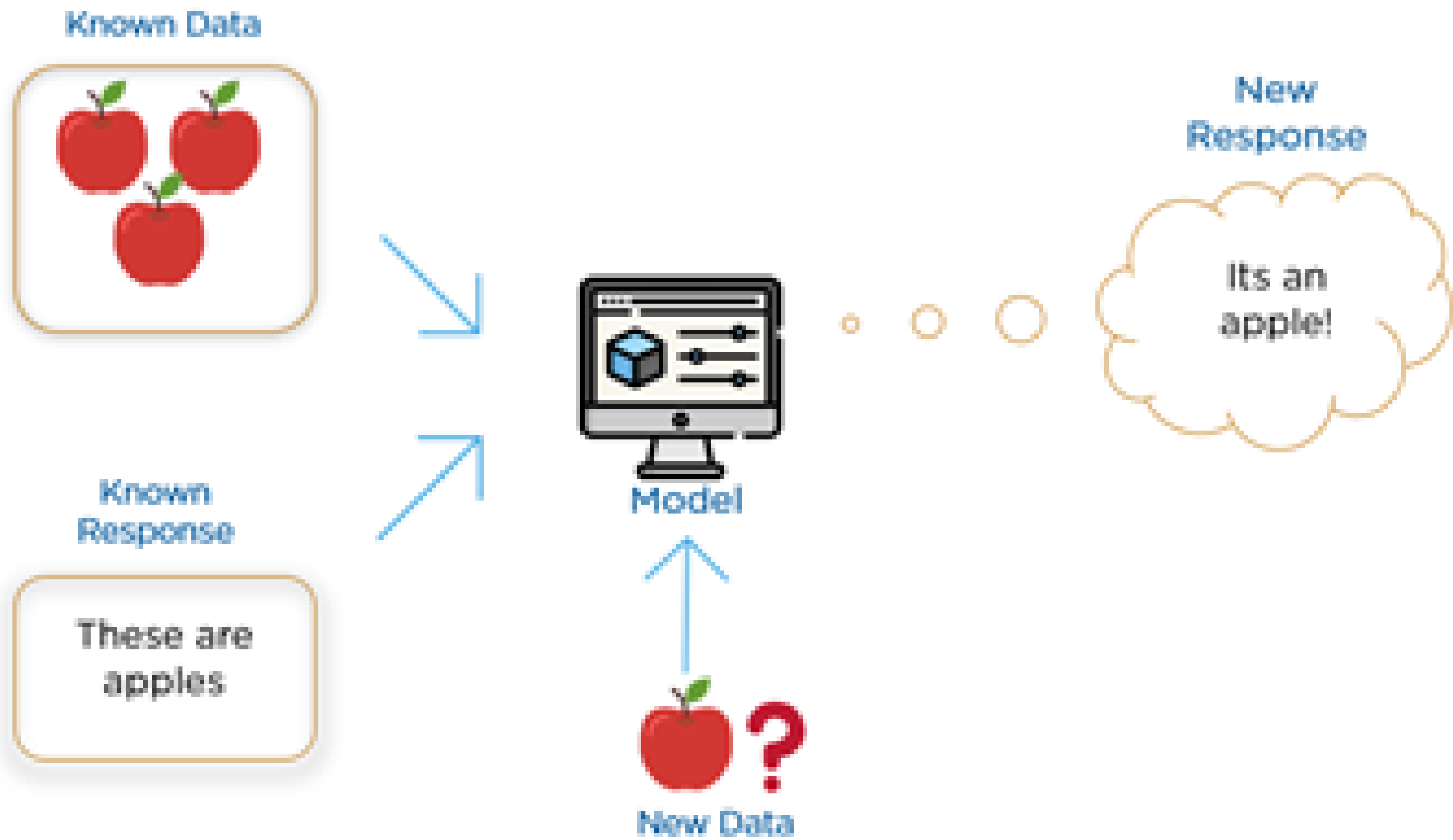
EVOLUTIONARY  
ALGORITHMS

**MACHINE LEARNING**



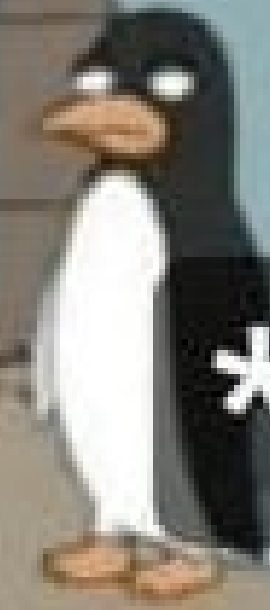
# What is AI - For People In a Hurry!





**\*Machine Learning**

**\*Algorithms**



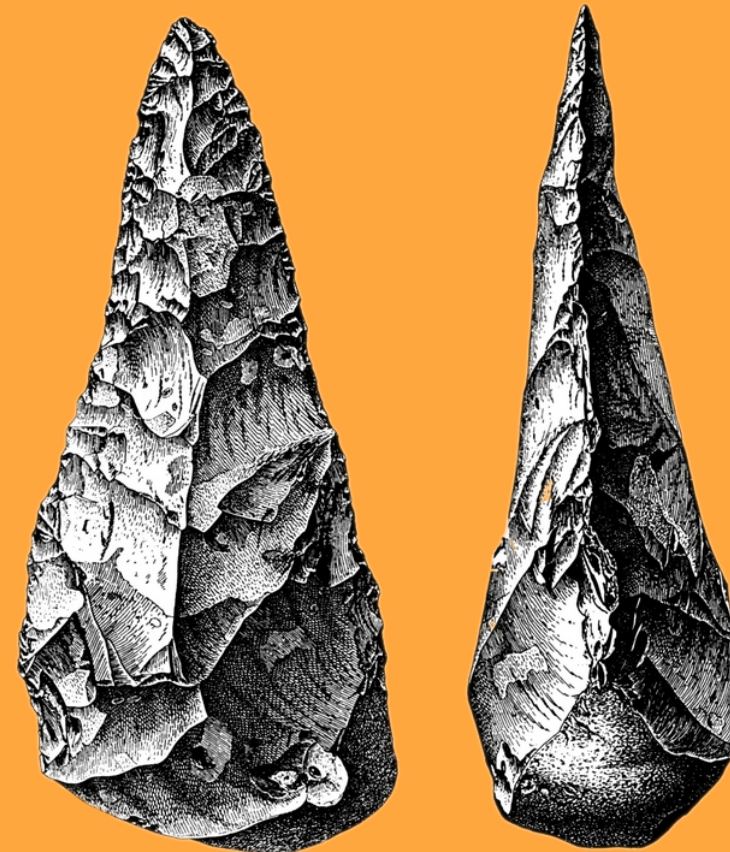
**\*Maths**

**What the hell is this?**

AI  
IN  
CONTEXT



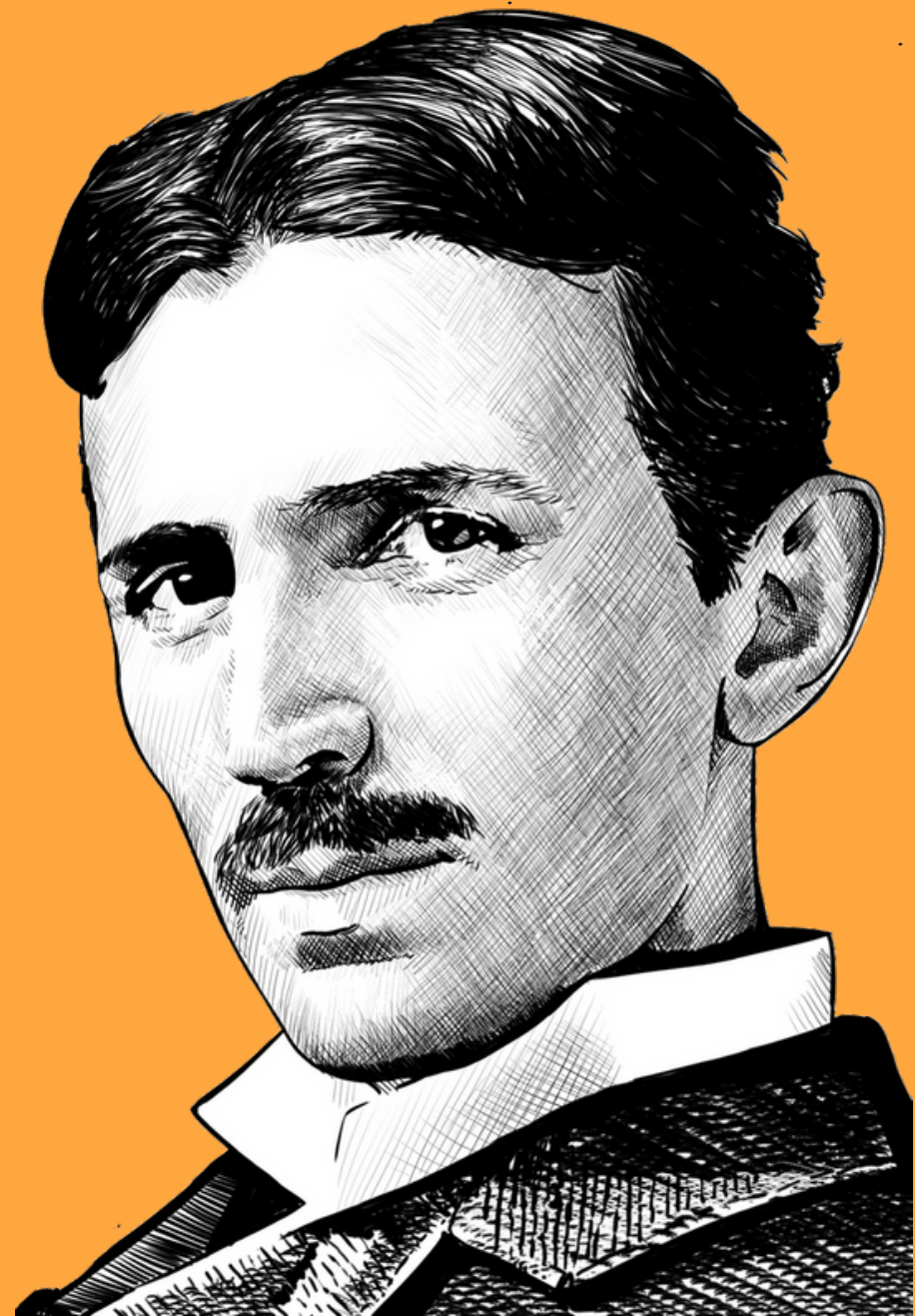
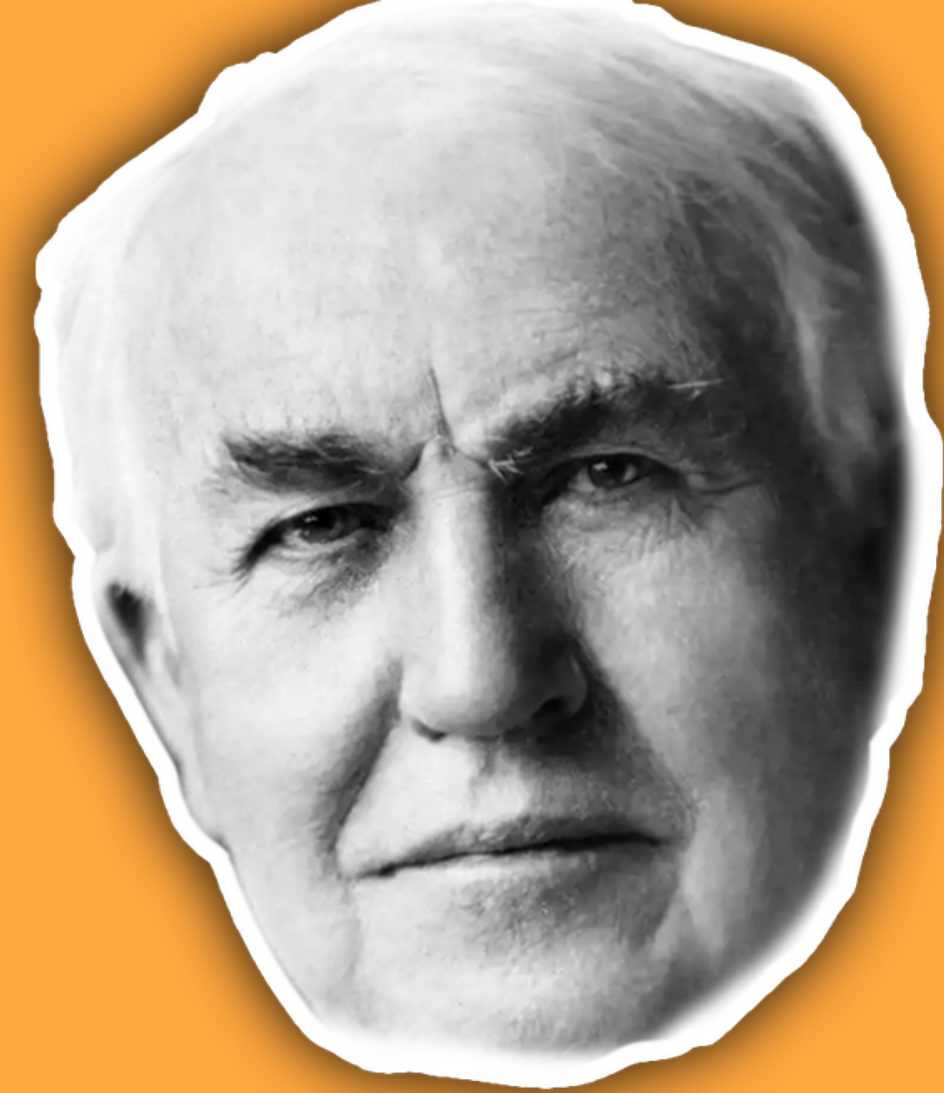
# HISTORICAL TECHNOLOGIES





# POLITICS





**MONEY +  
INVESTMENT**

# BUREACURACY







# CLICKBAIT







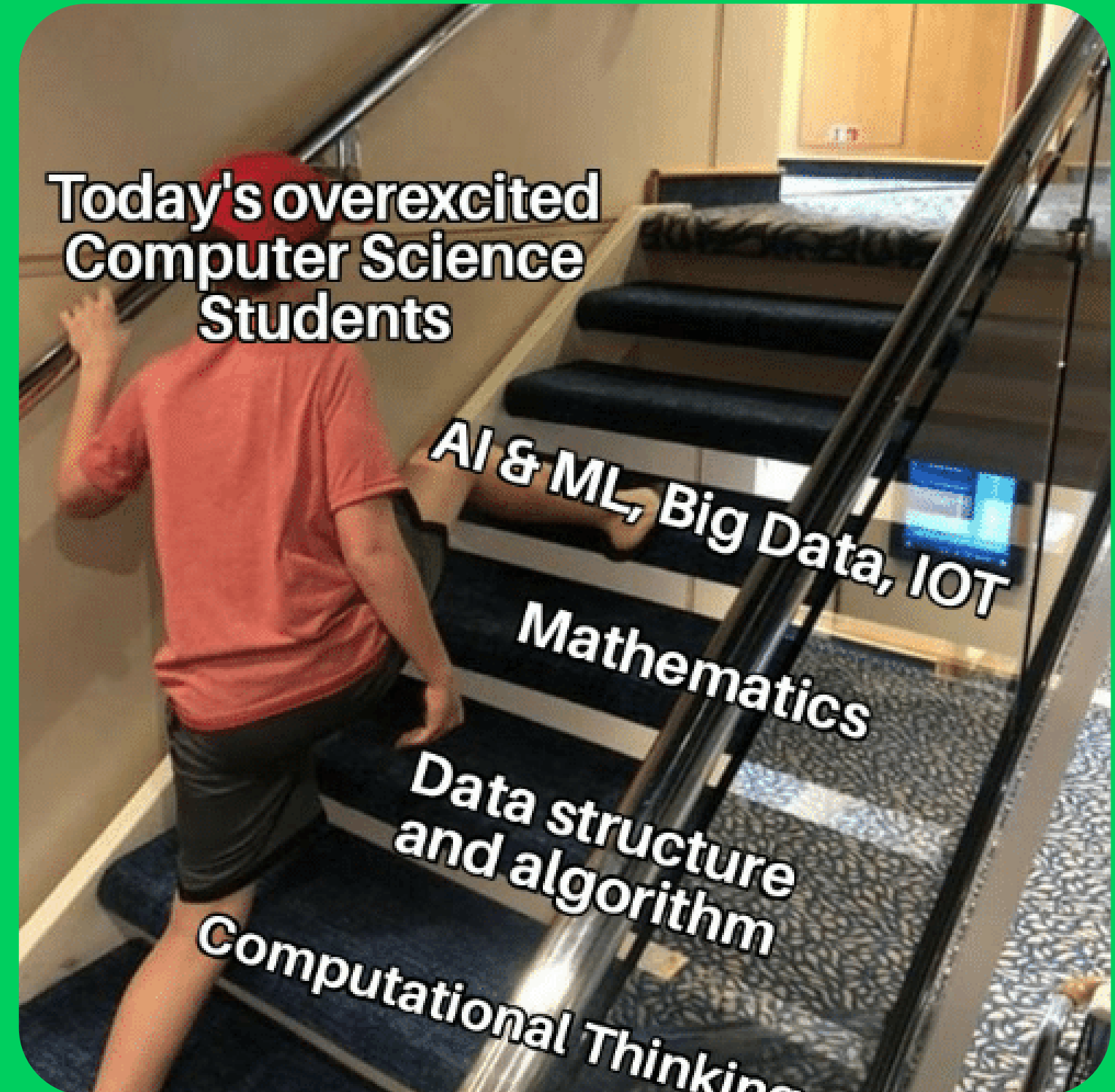
HUMANS

ARE

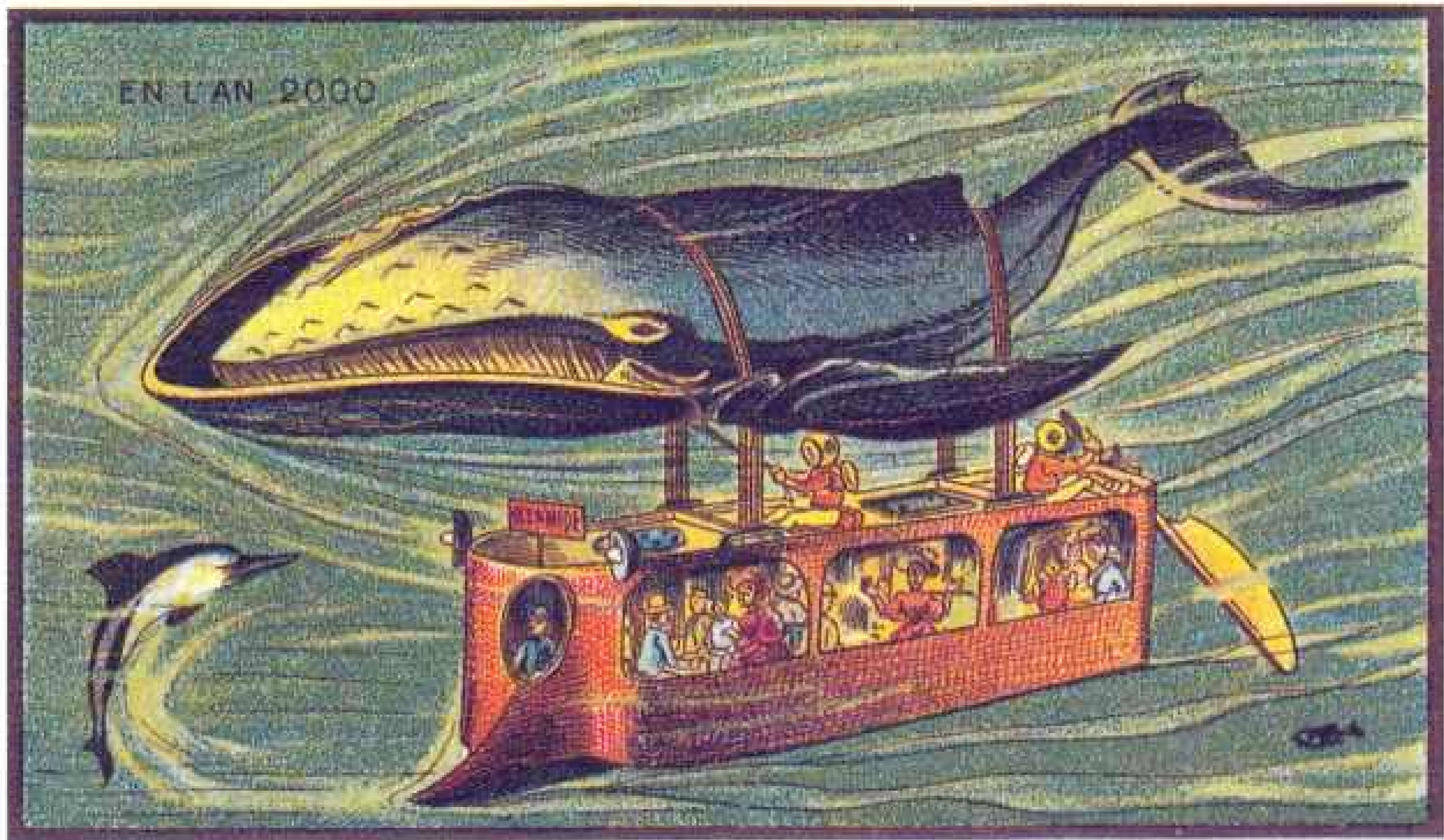
HUMANS

AI  
BULLSH\*T









A Whale-Bus



 The Guardian

## 'The discourse is unhinged': how the media gets AI alarmingly wrong

In March last year, Lipton started his own blog to try to counter-balance and deconstruct some of the most damaging sensationalist AI news. So far ...

Jul 25, 2018



 TNW

## The Guardian's GPT-3-generated article is everything wrong with AI media hype

The Guardian's GPT-3-generated article is everything wrong with AI media ... In the long-run, those sensationalist tactics won't benefit the field ...

Sep 8, 2020



 Tech Xplore

## AI may mistake chess discussions as racist talk

"We don't know what tools YouTube uses, but if they rely on artificial intelligence to detect racist language, this kind of accident can happen," ...

2 weeks ago



 The Independent

## AI mistakes 'black and white' chess chat for racism

AI mistakes 'black and white' chess chat for racism. Issues with artificial intelligence-based content moderation highlighted after world's most ...

2 weeks ago





**FT** Financial Times

## After Google drama, Big Tech must fight against AI bias

After Google drama, Big Tech must fight against AI bias. 'Silicon Valley's problems with gender and racial imbalance are endemic and likely to ...

1 week ago



**T** The New York Times

## Hey, Alexa, Are You Sexist?

"I'm an AI." Alexa is sold with a default female-sounding voice and has a female-sounding name. Alexa is subservient and eager to please. If you ...

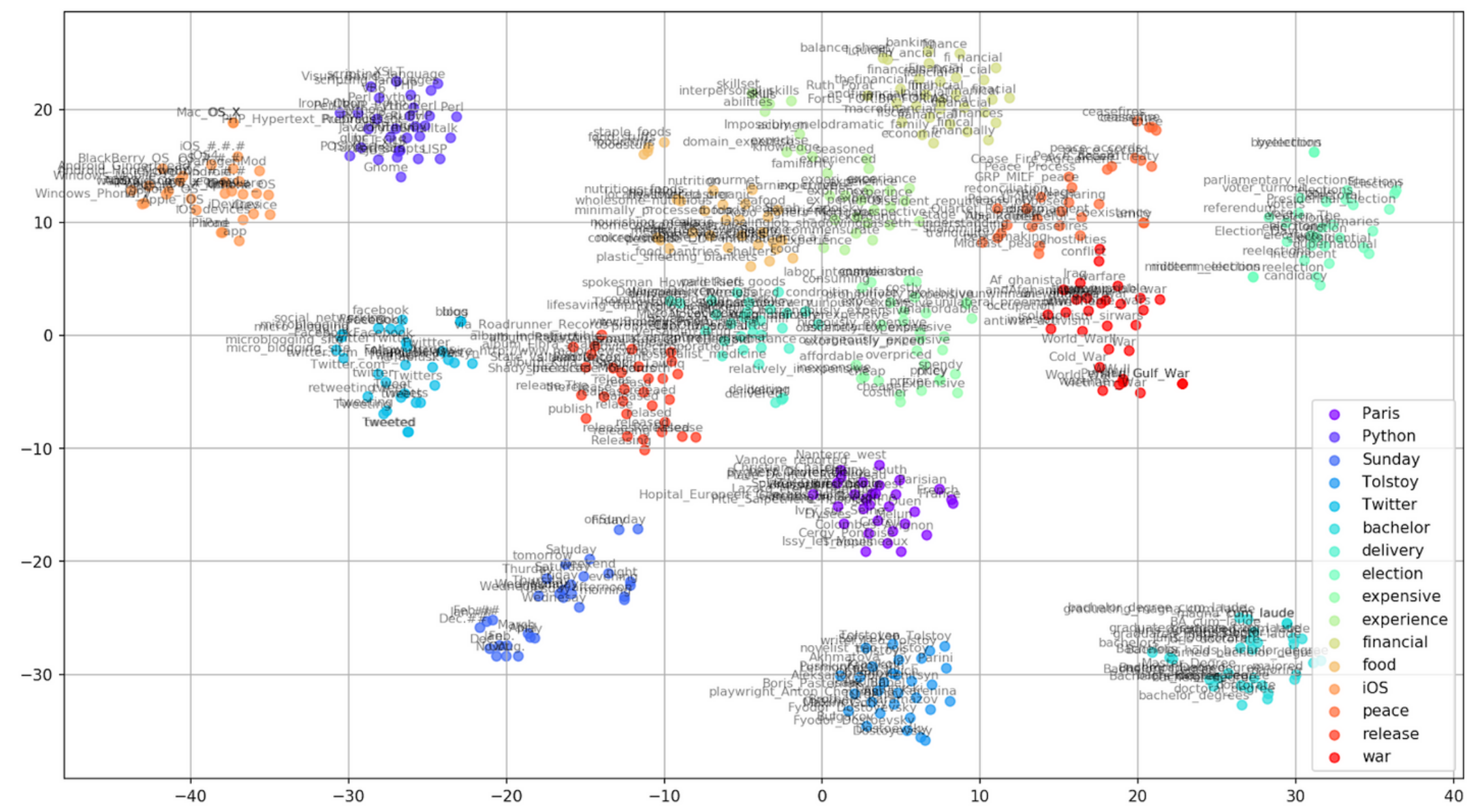
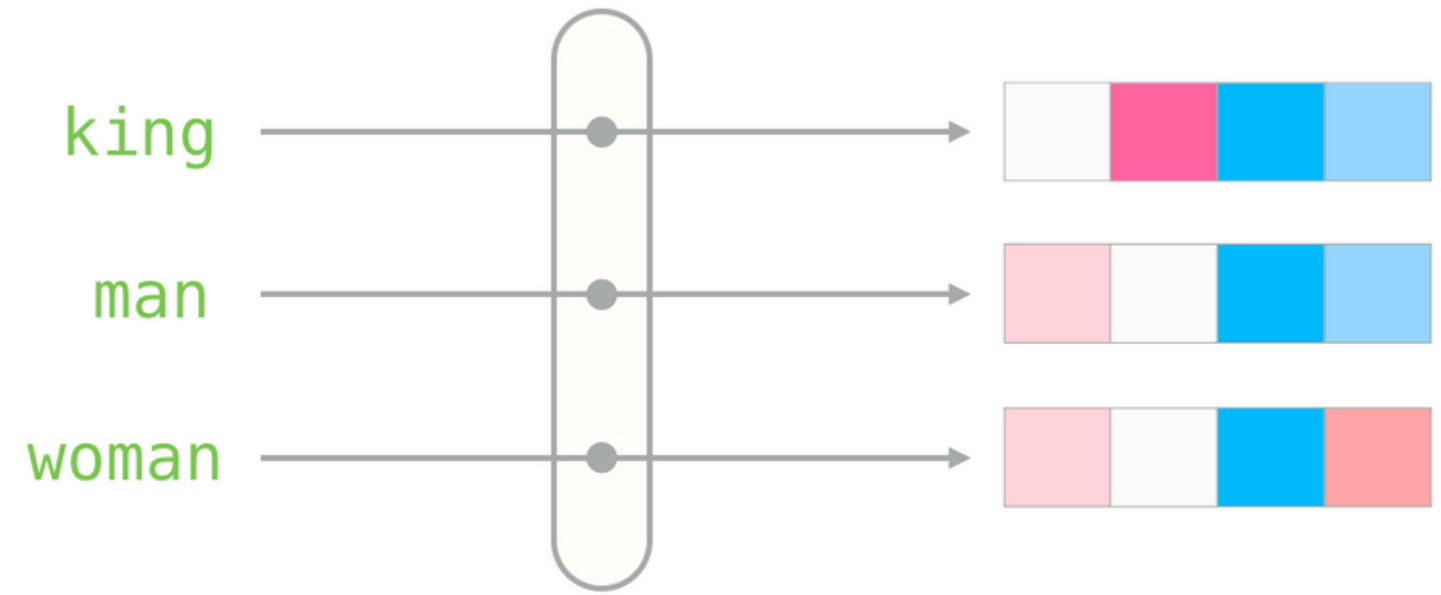
3 weeks ago



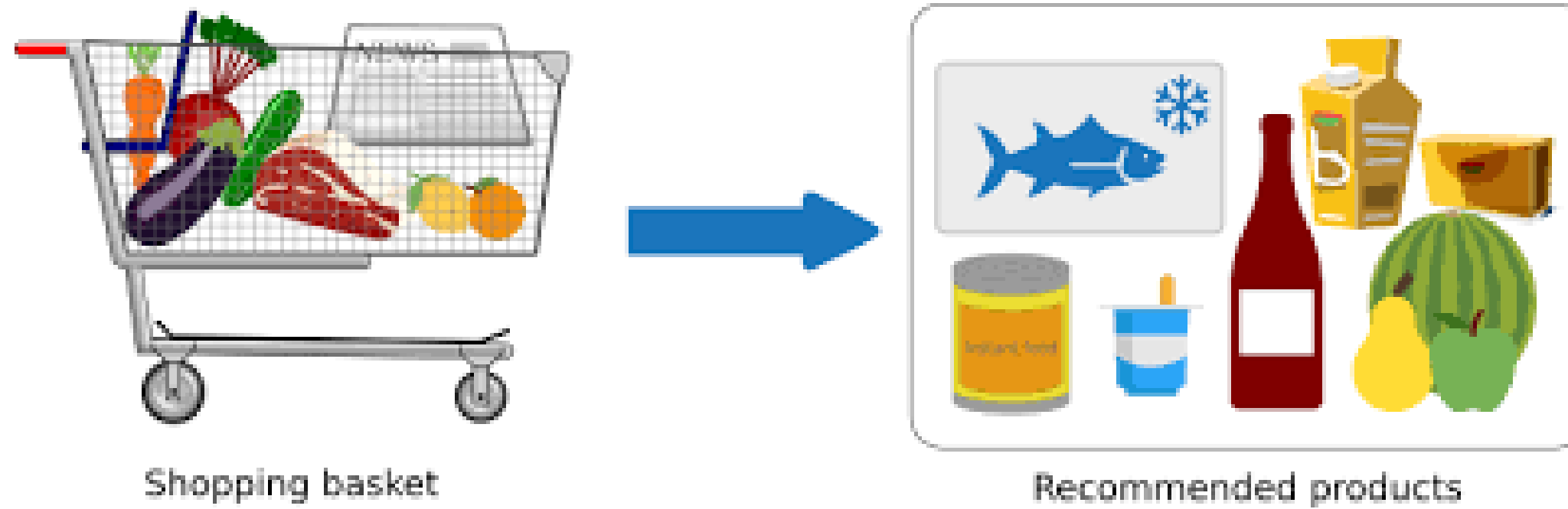
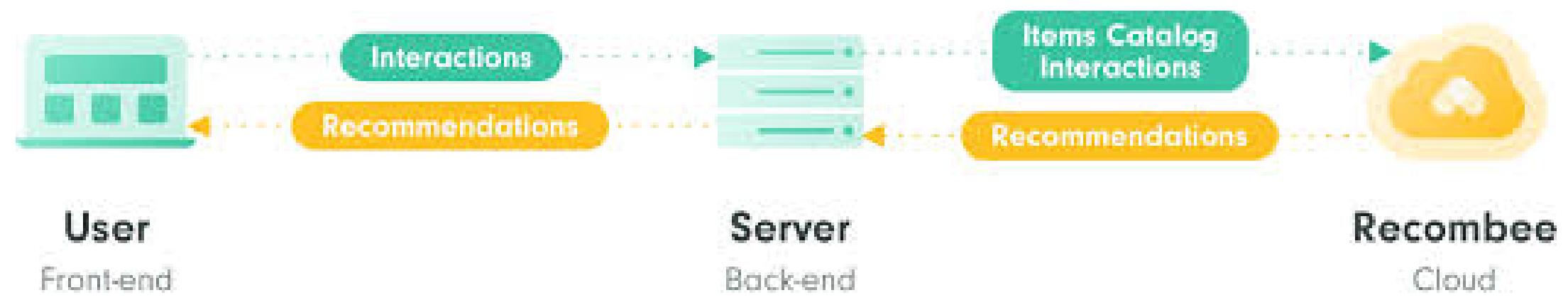


AI  
GOOD  
SH\*T

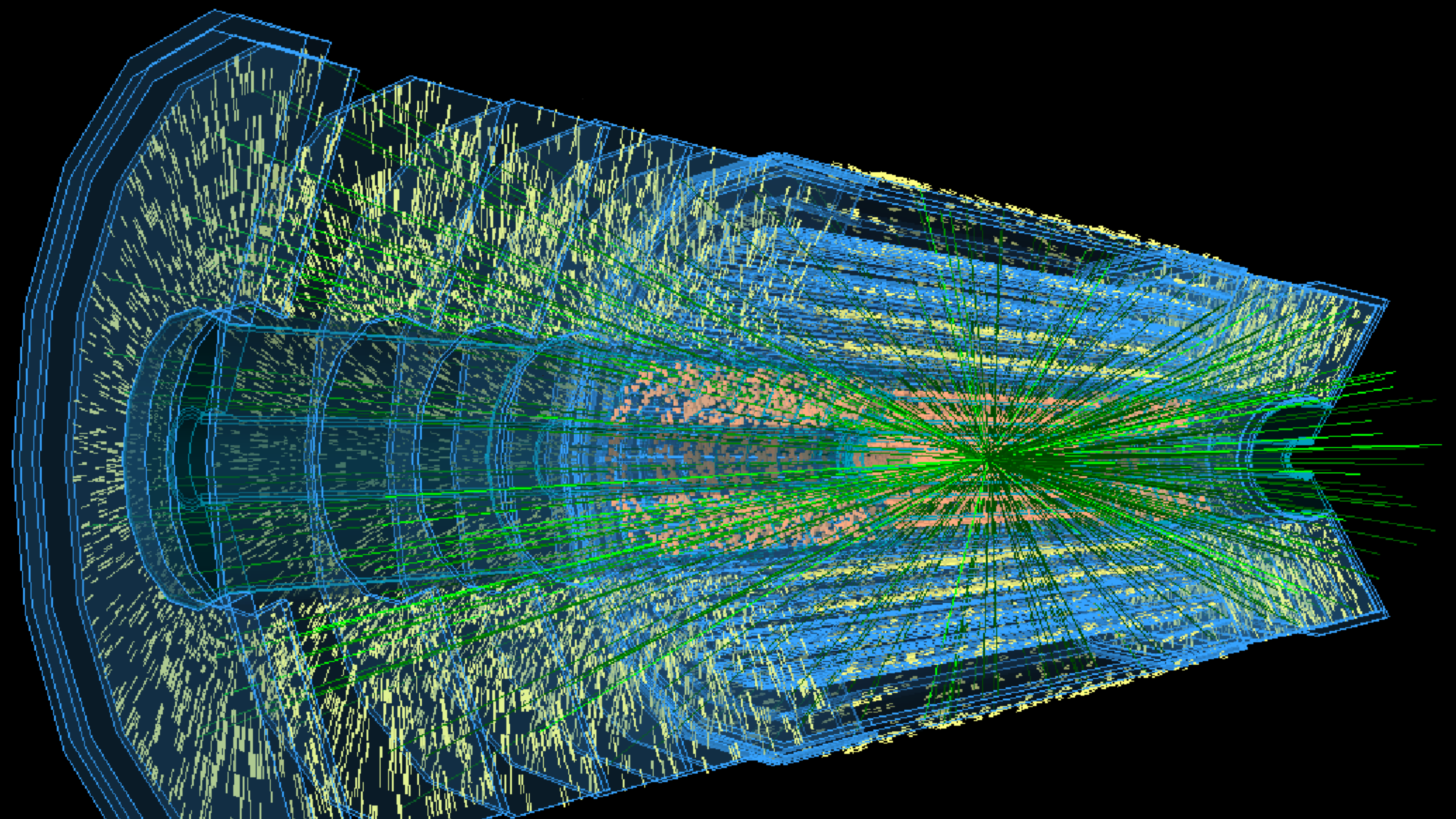
# Word2vec















Design and construction of artefacts

Autonomous landing

In situ resource utilisation

Data collection

Planetary navigation

Robonauts

Spacecraft maintenance

Astronaut health monitoring

In space refuelling

Mission planning

Mission ops

In space navigation

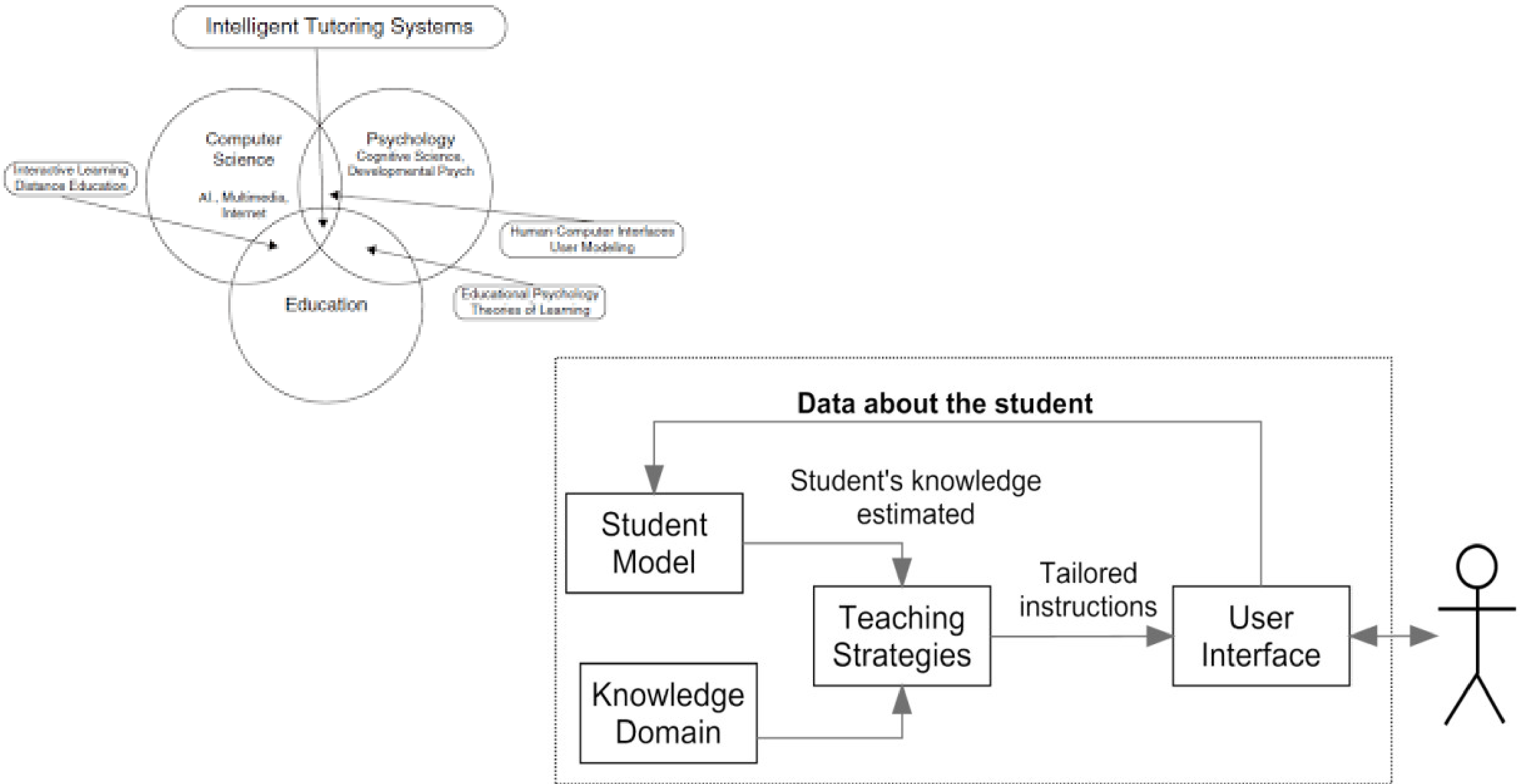
Data analysis

Knowledge discovery

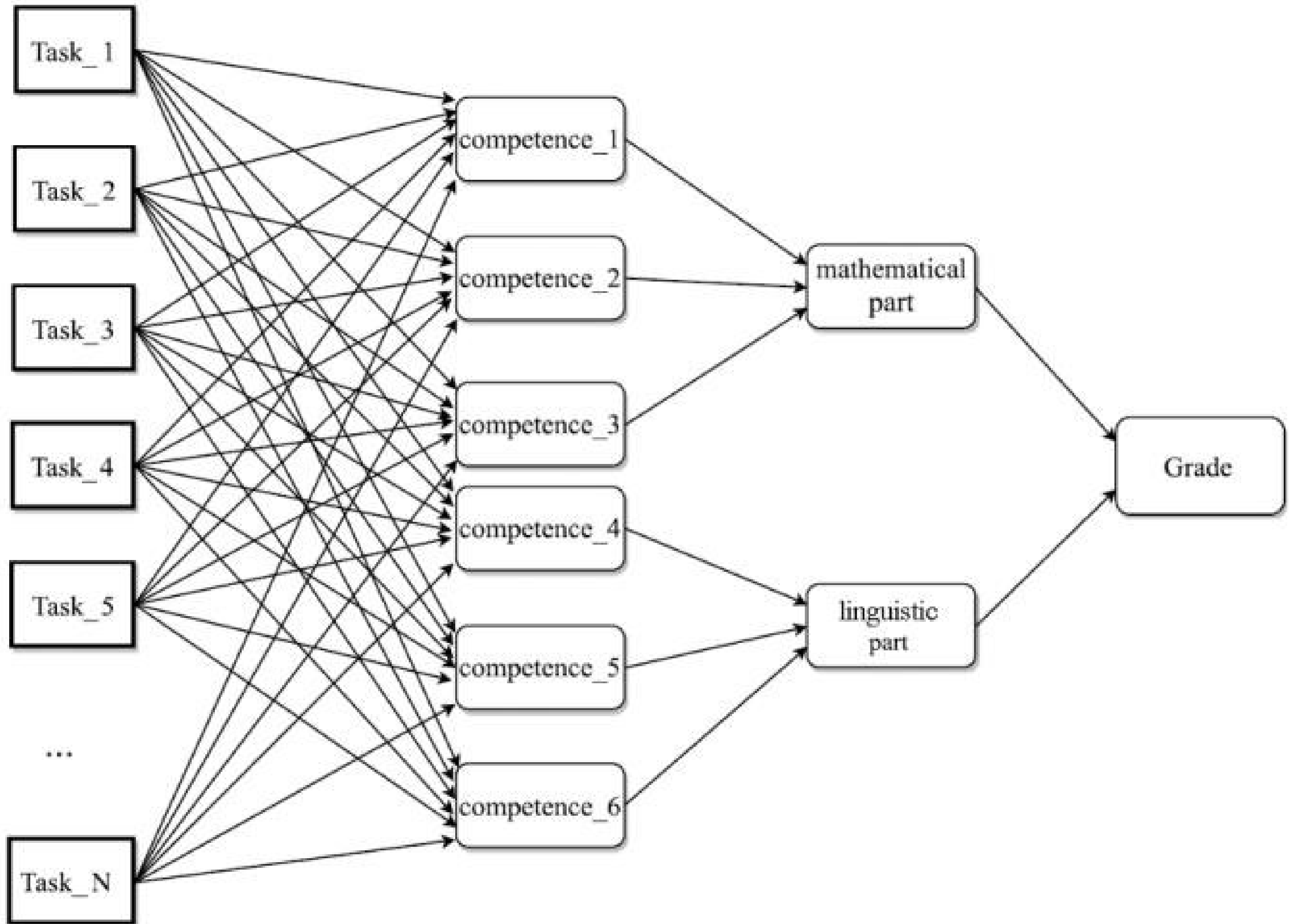
Communication

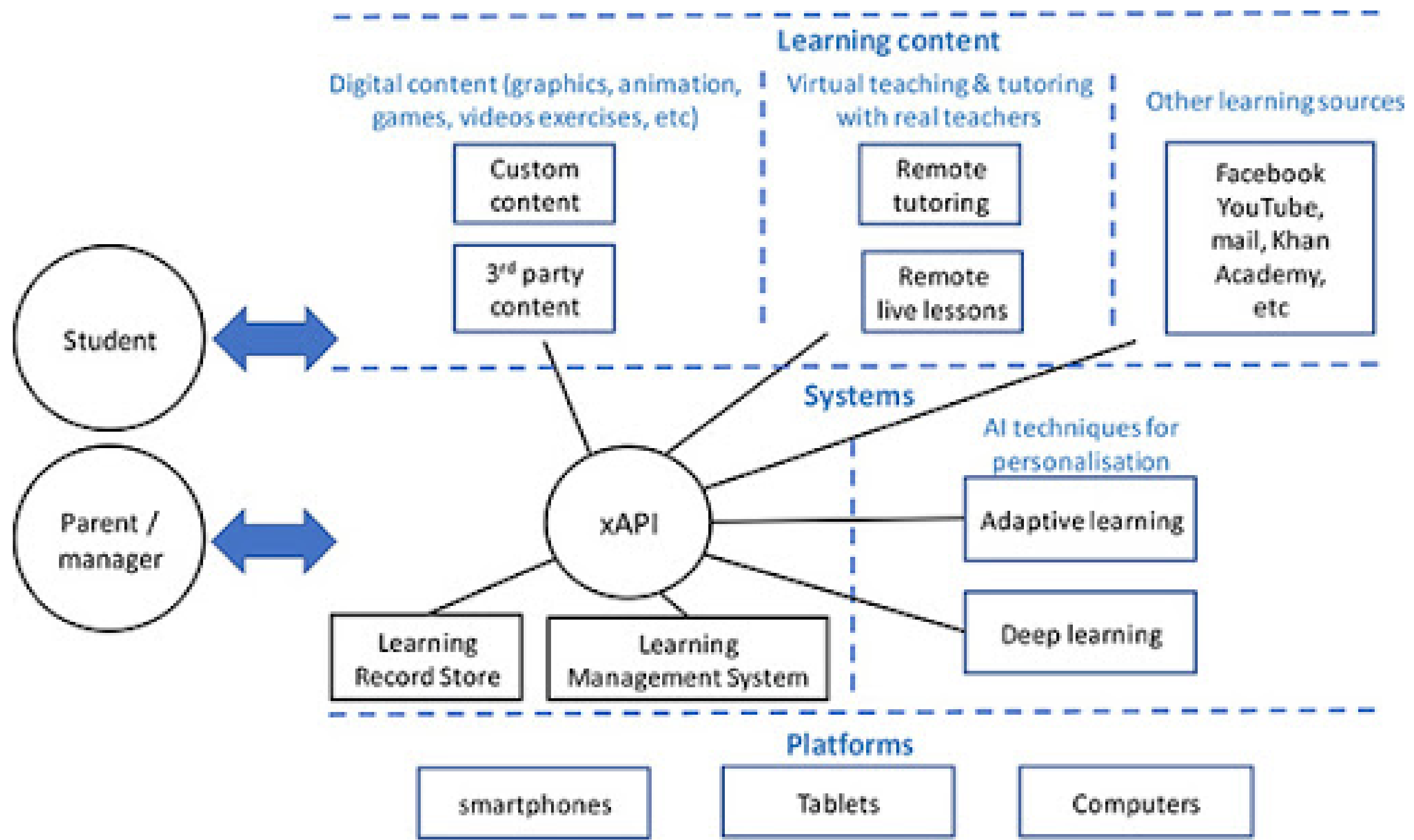
©apltownsend





**Fig. 1.** Basic architecture of an ITS [7].

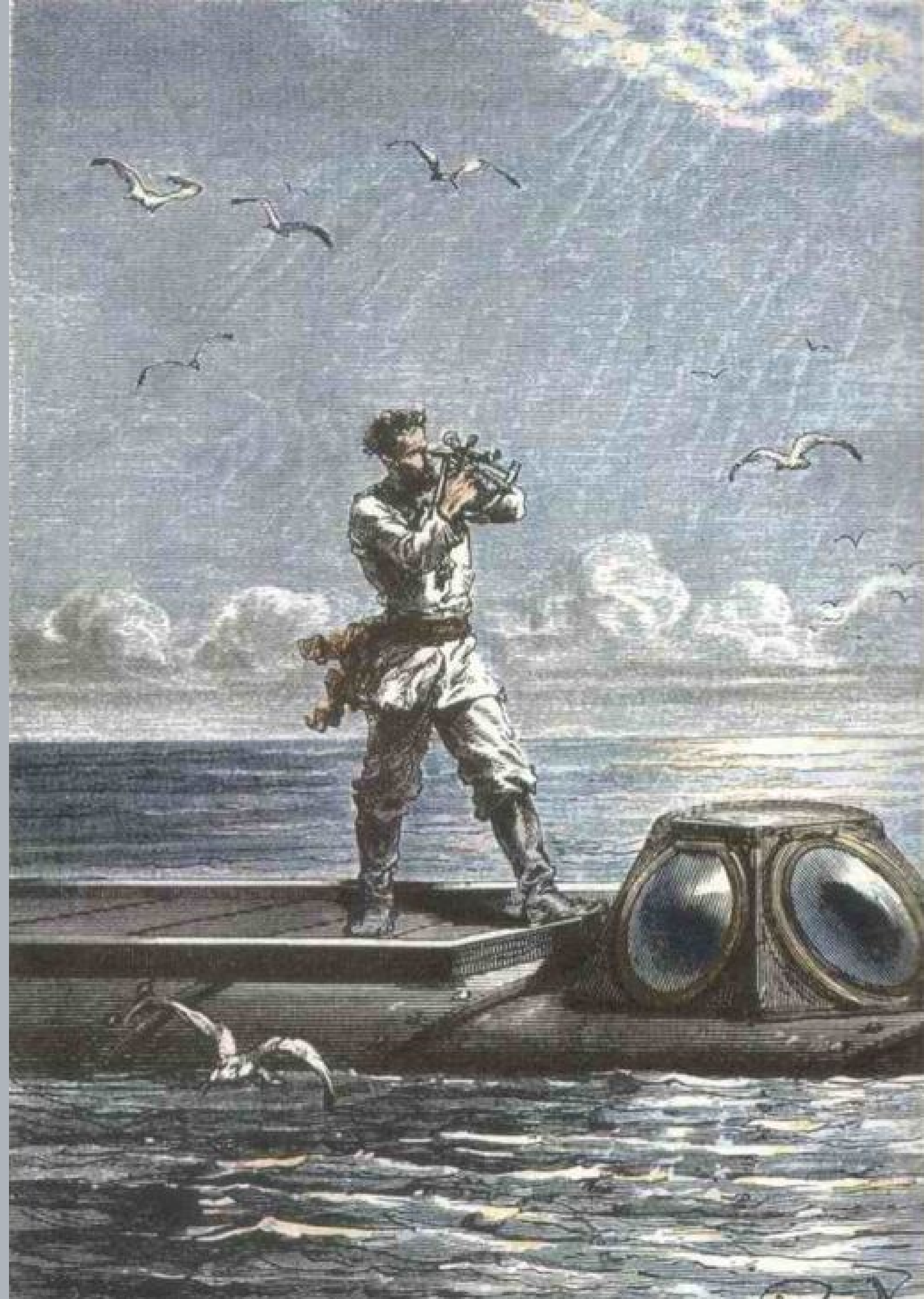




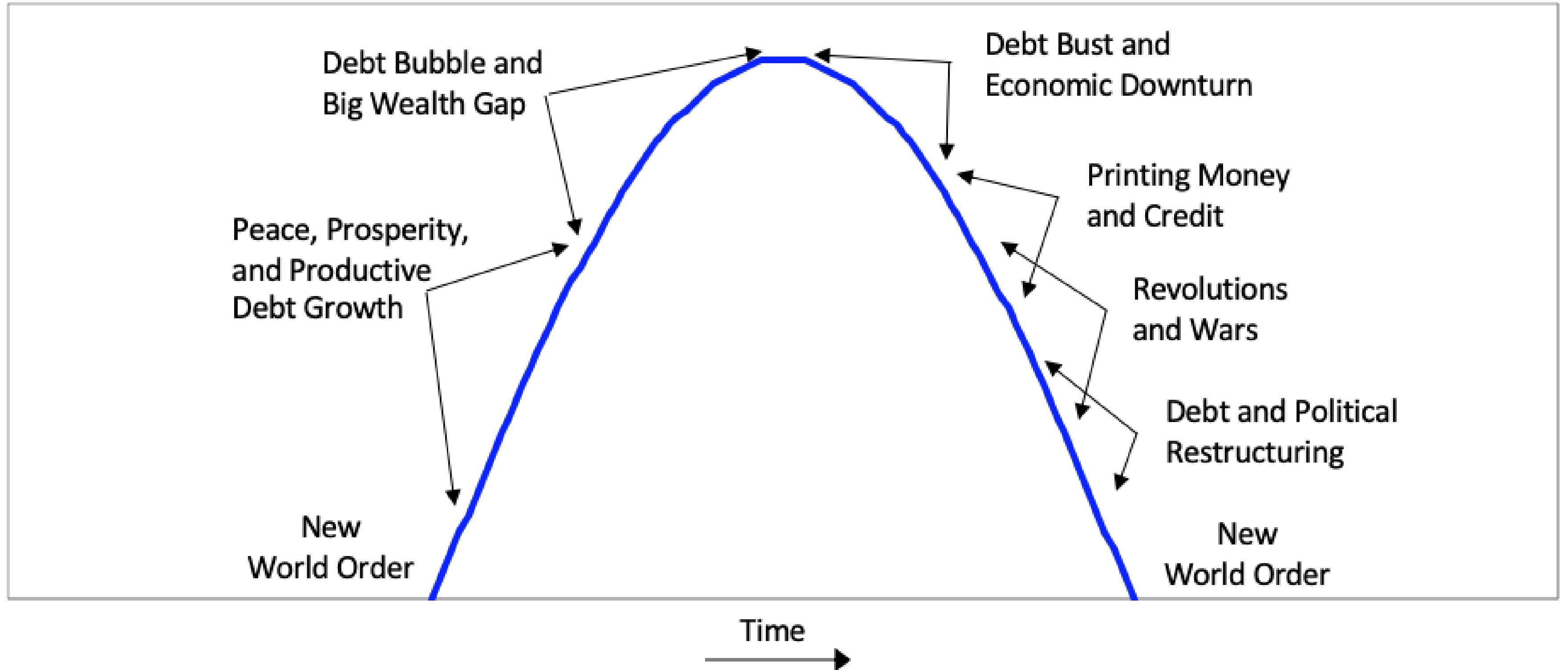
# WHAT THAT MEANS FOR YOU

- A REALITY CHECK
- B CRITICAL THINKING
- C THE IDEA HAS TO BE GOOD
- D AI IS A KEY TOOL - BUT NOT MAGIC





# The Typical Big Cycle Behind Empires' Rises and Declines



# THANK YOU!

Enjoy UniHack! Re/Invent the Education System

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