

Artificial Intelligence

An educational journey and financial impact discussion

Professor John Blevins (J.B.)
For the Sarasota Institute of Lifetime Learning Members

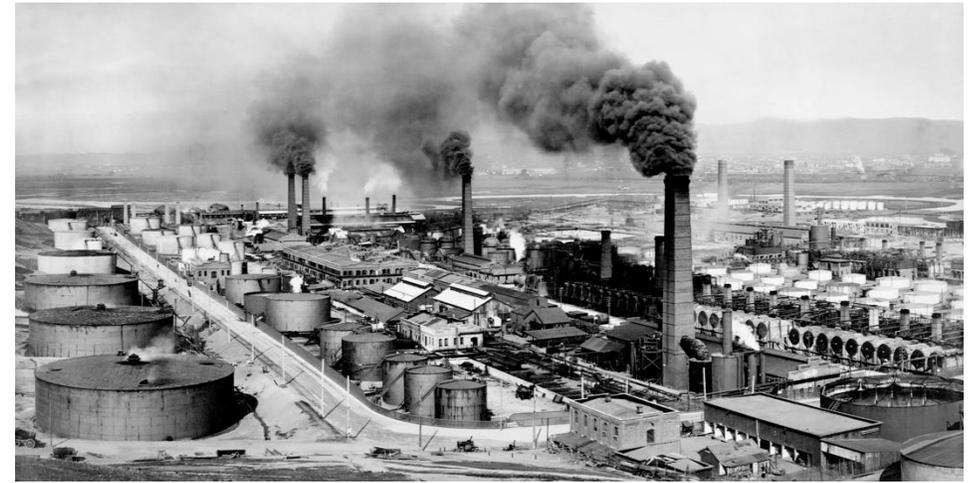
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Tech Evolution

Technology expanding knowledge to enable new opportunities

Oil enabled the Industrial Revolution

- Manufacturing
- Transportation
- Automotive
- Power generation



Data enables the digital revolution

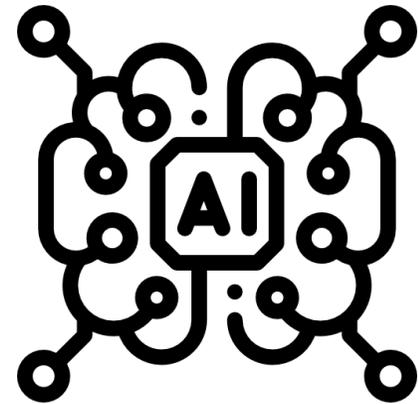
- Manufacturing
- Transportation
- Automotive
- Power generation



Think of data-powered AI algorithms as tools to create new business & investment opportunities

Analogy: The Internet in 1983

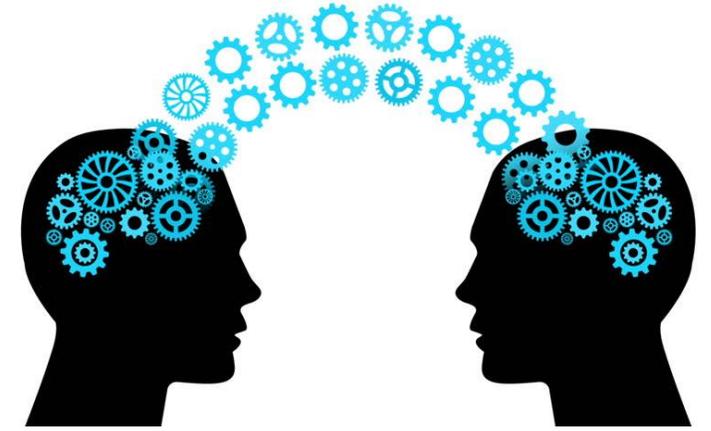
- Drastically changed every business
- Created new winners & losers in the marketplace
- Arrived with a lot of promise
- Presented a lot of problems
- Was not well understood (*How does this work?*)
- Caused a lot of organizations to learn new ways to do business
- Forced organizations to learn quickly
- Created tremendous wealth & prosperity growth
- Solved a lot of business and societal problems



SILL Speaking Request

Your kind invitation to be with you today

- **Teach us AI (quickly)**
- **Tell us how we can use this information**
 - **What is something many of us are concerned about**
 - **Check retirement portfolio (daily)**
- **How AI is impacting our retirement portfolios**
 - **As well as the global business community & society at large**



Artificial Intelligence Explanation

What SILL members should understand about Artificial Intelligence

What is Artificial Intelligence?

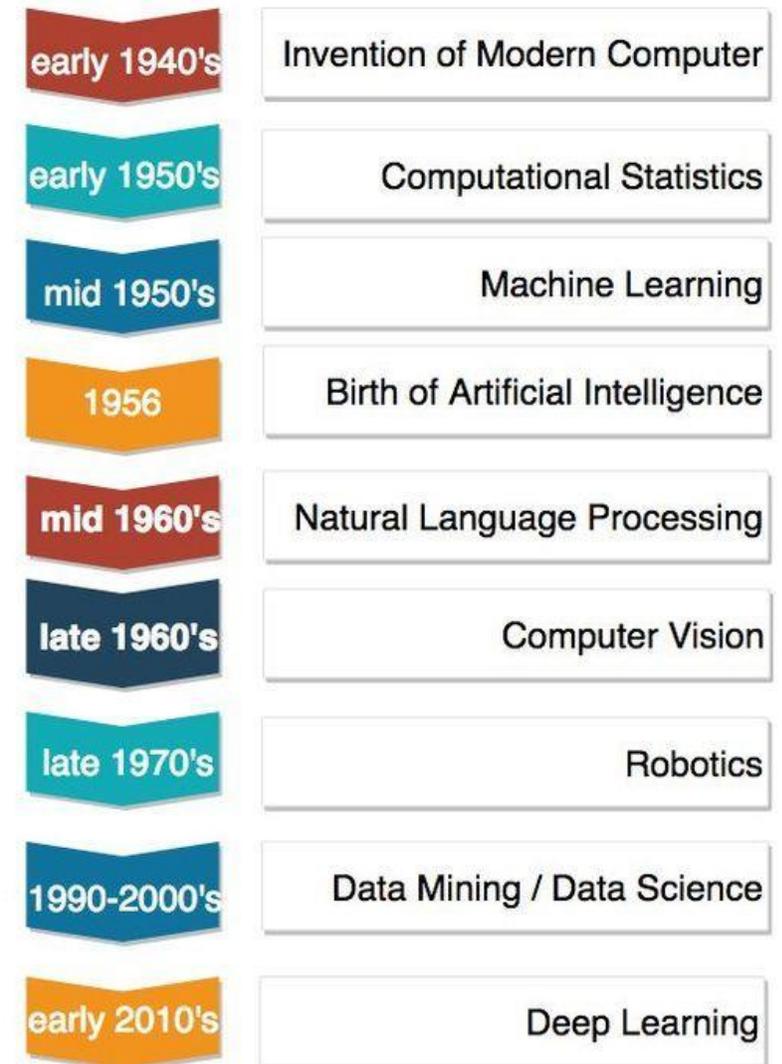
Definition

The theory & development of computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making, & translation between languages.

John McCarthy
Coined AI in 1956



- The **simulation** of intelligent behavior in computers.
- The capability of a machine to **imitate intelligent human behavior**.



Human Thinking

How we solve daily problems

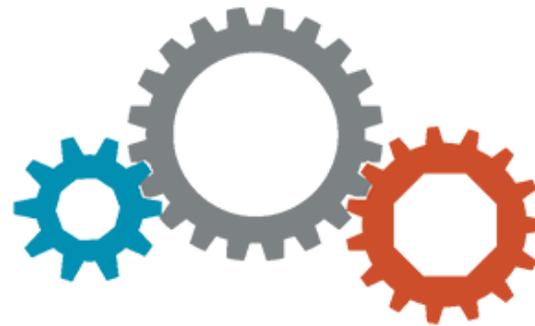
Inputs



Process



Actions



Human Thinking

How we solve daily problems



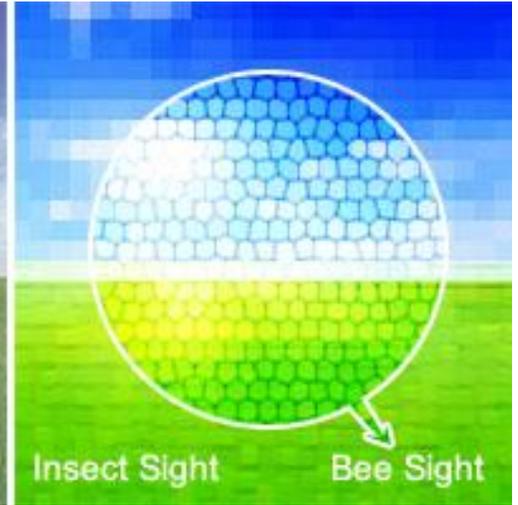
Eye



Human Sight



Dogs / Cats Sight



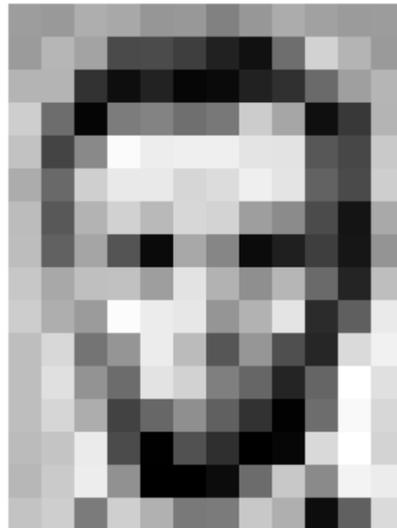
Insect Sight

Bee Sight

Input: **Sight**



Camera



157	153	174	168	150	152	129	151	172	161	155	156
155	182	163	74	75	62	33	17	110	210	180	154
180	180	50	14	34	6	10	33	48	106	159	181
206	109	5	124	131	111	120	204	166	15	56	180
194	68	137	251	237	239	239	228	227	87	71	201
172	105	207	233	233	214	220	239	228	98	74	206
188	88	179	209	185	215	211	158	139	75	20	169
189	97	165	84	10	168	134	11	31	62	22	148
199	168	191	193	158	227	178	143	182	106	36	190
205	174	155	252	236	231	149	178	228	43	95	234
190	216	116	149	236	187	85	150	79	38	218	241
190	224	147	108	227	210	127	102	36	101	255	224
190	214	173	66	103	143	96	50	2	109	249	215
187	196	235	75	1	81	47	0	6	217	255	211
183	202	237	145	0	0	12	108	200	138	243	236
195	206	123	207	177	121	123	200	175	13	96	218

157	153	174	168	150	152	129	151	172	161	155	156
155	182	163	74	75	62	33	17	110	210	180	154
180	180	50	14	34	6	10	33	48	106	159	181
206	109	5	124	131	111	120	204	166	15	56	180
194	68	137	251	237	239	239	228	227	87	71	201
172	105	207	233	233	214	220	239	228	98	74	206
188	88	179	209	185	215	211	158	139	75	20	169
189	97	165	84	10	168	134	11	31	62	22	148
199	168	191	193	158	227	178	143	182	106	36	190
205	174	155	252	236	231	149	178	228	43	95	234
190	216	116	149	236	187	85	150	79	38	218	241
190	224	147	108	227	210	127	102	36	101	255	224
190	214	173	66	103	143	96	50	2	109	249	215
187	196	235	75	1	81	47	0	6	217	255	211
183	202	237	145	0	0	12	108	200	138	243	236
195	206	123	207	177	121	123	200	175	13	96	218

Human Thinking

How we solve daily problems



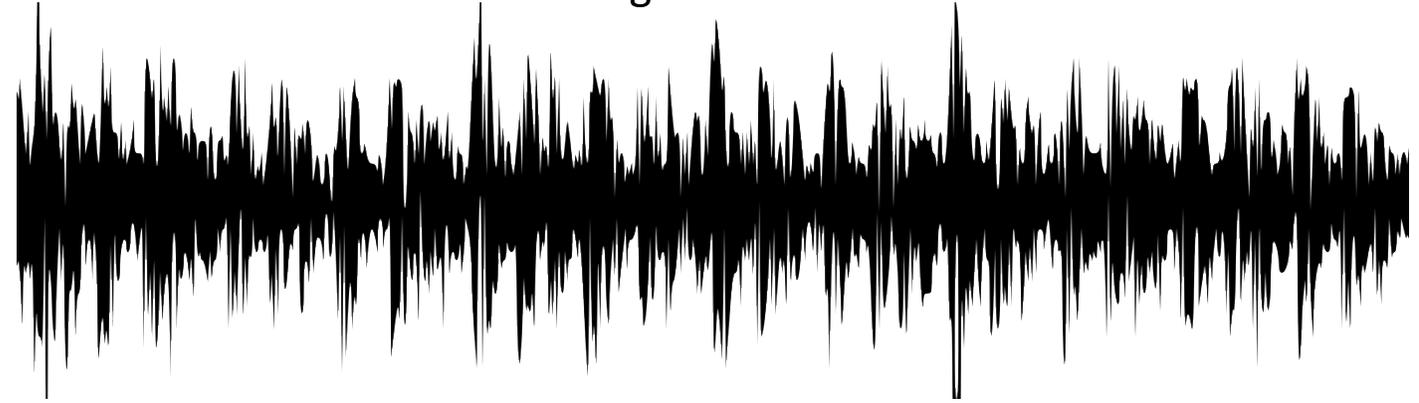
Ear

Input: **Sound**



Microphone

Analog Sound Wave



Digital Sound Wave



Human Thinking

How we solve daily problems



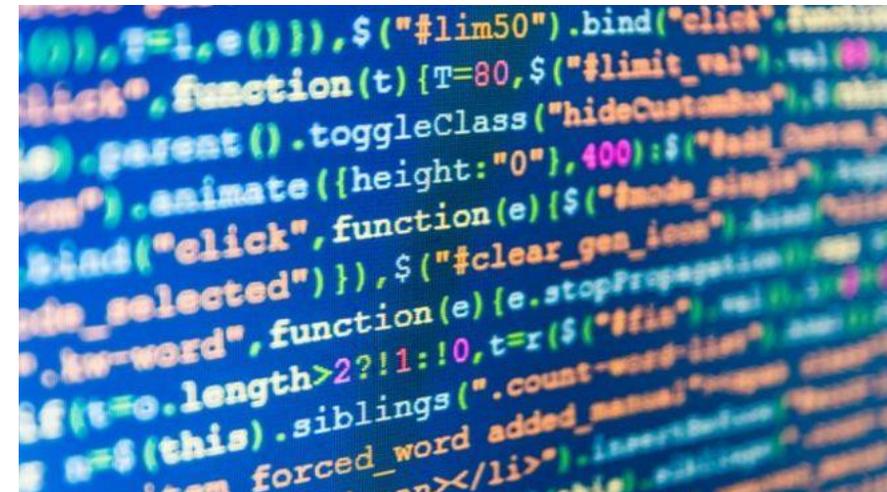
Hand



Input: Senses



Sensor



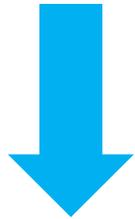
Human Thinking

How we solve daily problems

Inputs



Process



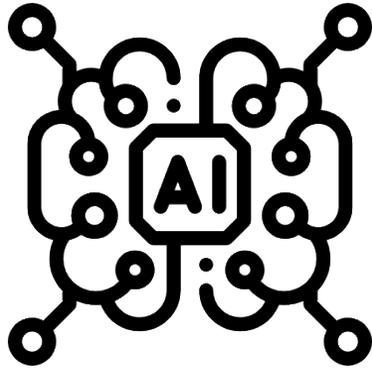
Actions



Artificial Intelligence

AI is simulated human intelligence in machines

Intelligence is the ability to learn about, learn from, understand and interact with one's environment



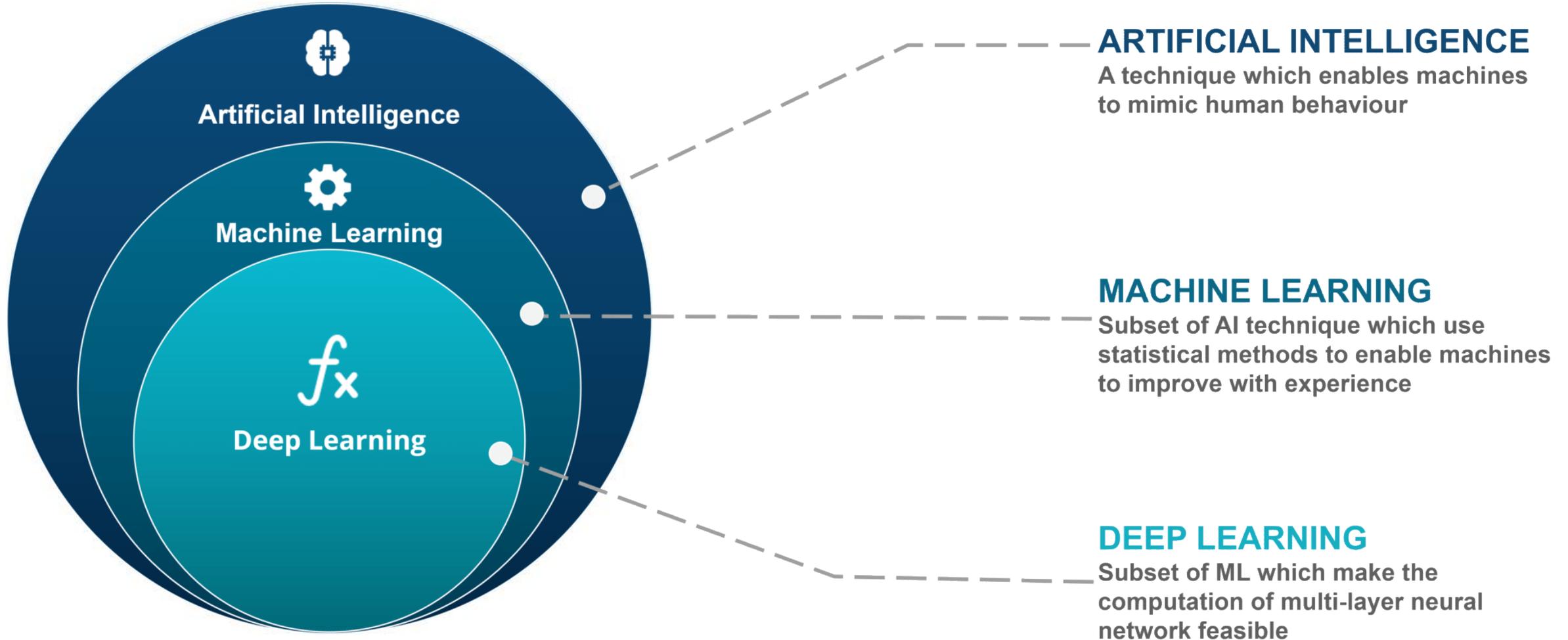
Artificial intelligence (AI) is a term for **simulated intelligence in machines**.

These machines are programmed to **"think" like a human** and mimic the way a person acts.

The ideal characteristic of artificial intelligence is its **ability to rationalize and take actions** that have the best chance of achieving a specific goal, although the term can be applied to any machine that exhibits traits associated with a human mind, such as learning and solving problems.

AI, ML and DL

Understanding the interaction between artificial intelligence, machine learning & deep learning



AI's Rising Importance

The reasons why Artificial Intelligence is getting so much attention

Why is AI taking so up so much oxygen?

The potential for impact

Could mean dramatic change in...

- Markets
- In the way we approach problems

Business

- Fix issues
- Predict customer needs
- Improve manufacturing
 - Less defects
 - Improve usage (think jet engines)
- Create new products for unknown/unmet needs



Society

- Climate Change
- Severe Weather Prediction
- Best way to evacuate a peninsula during a hurricane

Evolution to AI

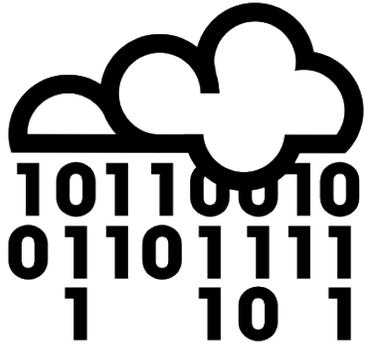
Past technologies have laid the groundwork for AI

Cloud Computing

Big Data

Machine Learning

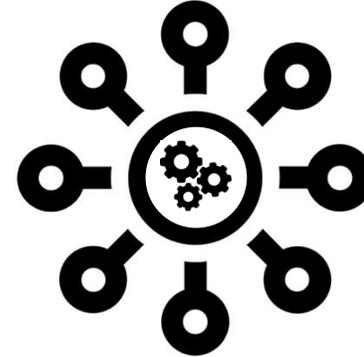
Artificial Intelligence



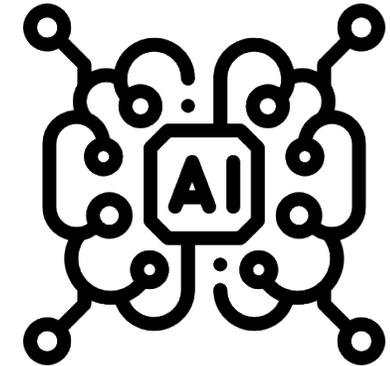
Enabled large data sets **to be accessible**



Enabled large data sets **to be developed**



Enabled large data sets **to be analyzed**



Enabled large data sets **to be understood**

Firms Must Start to Progress (or be rendered irrelevant)

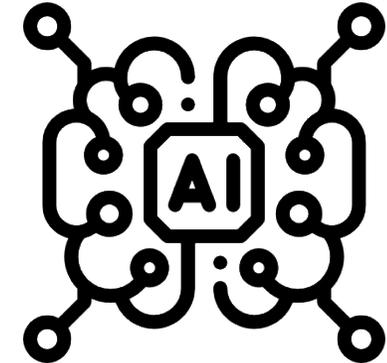
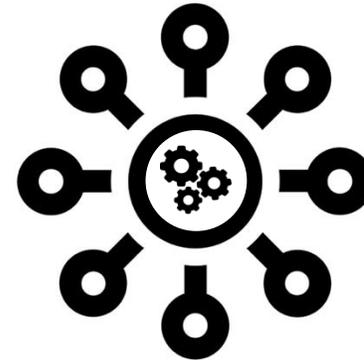
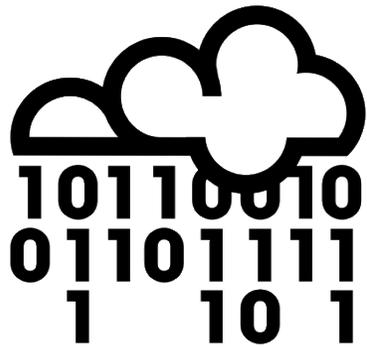
New technologies lay the groundwork for the next capability

Cloud Computing

Big Data

Machine Learning

Artificial Intelligence

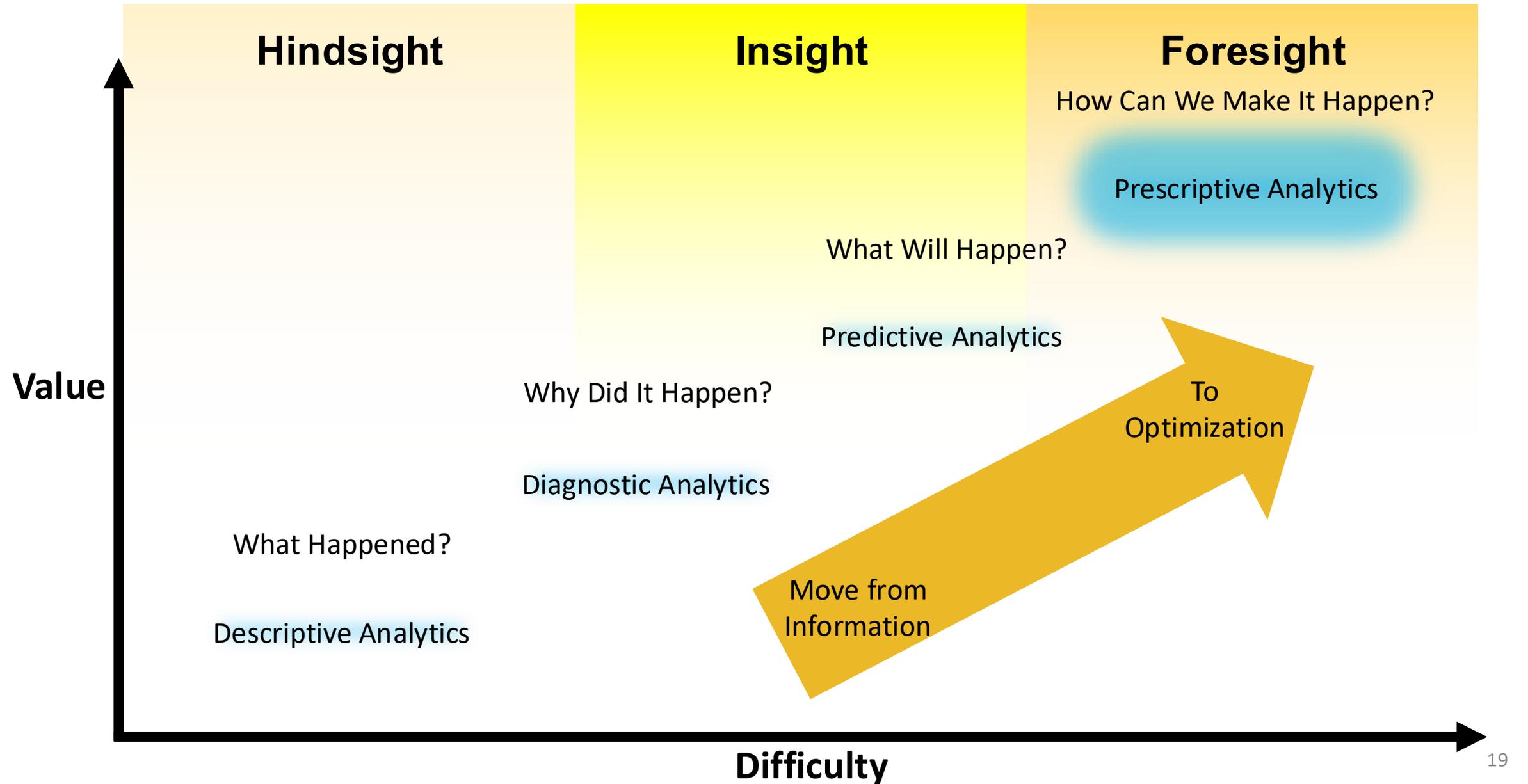


Examples



*Must go through each
Pace to do so is accelerating*

AI is Powering Predictive Analytics



Marketplace Opportunities

Businesses look to exploit AI's impact for marketplace advantage

- **Consumer needs not meet because of**

- Extreme complexity
- Extreme customization
- Extreme cost



Gene editing



Prosthetics



Supersonic travel

- **Known market demands with no current solution offering**

- Past projects deemed unfeasible
- Dream solutions



Space travel



Flying cars



Weight loss

But wait...

Hasn't it been around since 1950's?



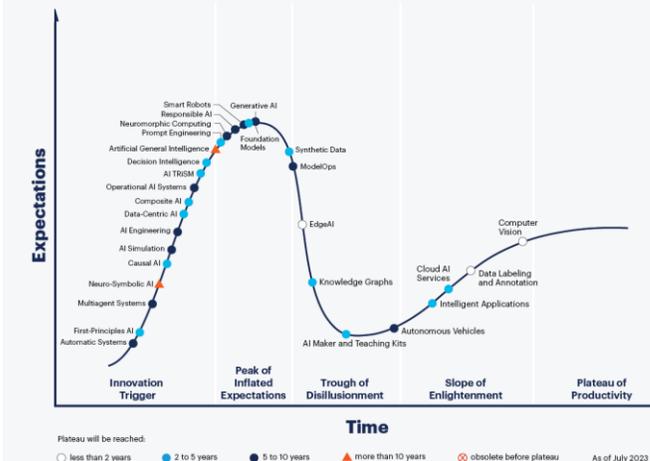
Yes

but it's finally gotten good enough to make a difference.

So good, laypeople (the everyday public) know about it.

This gives it momentum in the marketplace.

Hype Cycle for Artificial Intelligence, 2023



gartner.com

Source: Gartner
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Gartner.

What is good enough to make a difference?

When our AI models (the algorithms) predict with far greater accuracy.



Are we there yet?

No.

But there are enough places where it's gotten so remarkable good, we're starting to take it seriously.



What is good enough to make a difference?

Some Early Successes

- NLP/Language translation/prediction
- Virtual assistants/help bots/services/smart speakers
- Maintenance troubleshooting prediction
- Financial services fraud detection/customer retention
- Navigation
- Moderna COVID-19 vaccine creation in months not years

Some hopefully “just-around-the-corner” potentials

- Autonomous driving
- Drug formulations/drug trials
- Healthcare predictions/outcomes

What does a business (or government) need to make AI work?

Data



Knowledge that comes from deep, rich, historical, and cross-functional/cross-market data

Haven't companies always had data?

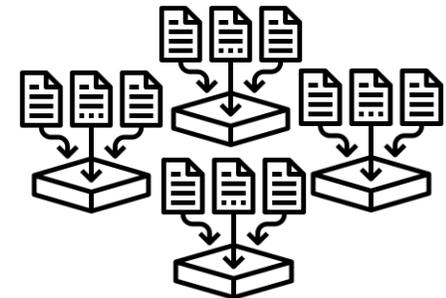
Yes

but we didn't have the processing power/algorithmic knowledge to make high quality algorithms

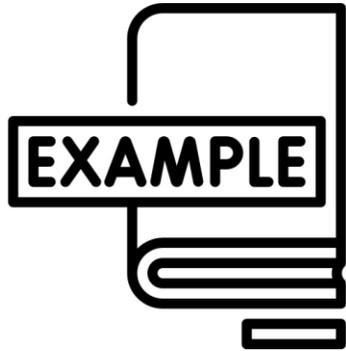
Then why aren't all companies having AI success?

Because most don't have enough data

And not nearly enough data from beyond their own organization



To predict customer purchases (and hopefully influence them for more) a firm would need to know every single aspect of every single customer's unique situation.



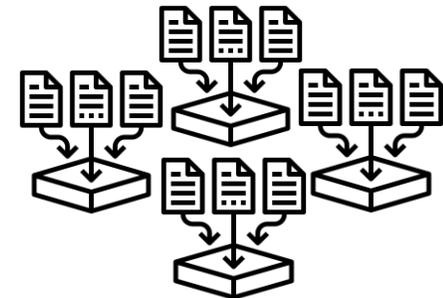
- Just got a raise/bonus & has money to spend
- Just got fired & can't spend
- Just had a job change & must move
- Just got a divorce & now has different family needs

Firms need far more data beyond their own walls to create the best AI algorithms

Then why aren't all companies having AI success?

Because most don't have enough data

And not nearly enough data from beyond their own organization



Which Firms Are Succeeding with AI?

Some organizations are having greater success implementing artificial intelligence than others

Those firms with
all the data

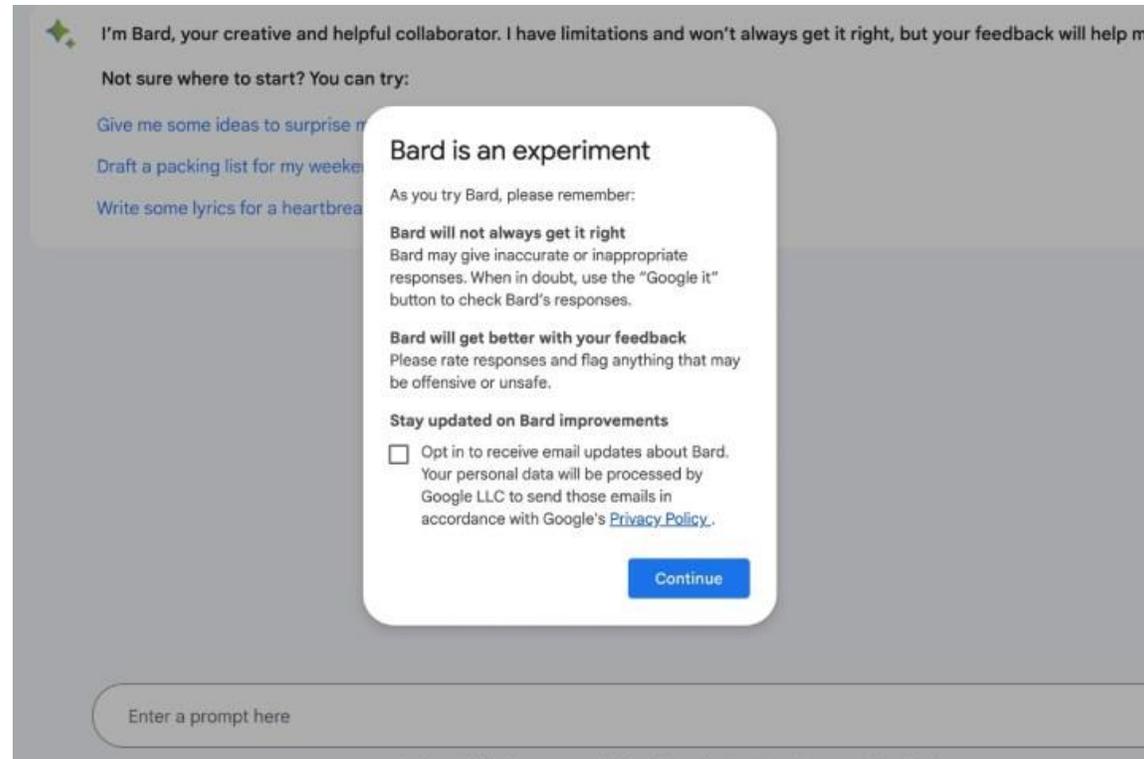
- Google (global search knowledge)
- Amazon (consumer retail/e-commerce)
- Facebook/IG/WhatsApp (social connections)
- Apple (location)



Is AI Perfected?

Is artificial intelligence “ready for prime time”?

Perhaps
Perhaps Not



Is AI Perfected?

Is artificial intelligence “ready for prime time”?

Perhaps
Perhaps Not



Why did Google rush the still-beta Bard out so quickly?

Because Microsoft did it first with OpenAI

Microsoft took all the mindshare



(a strategic competitive decision)

Why did Microsoft rush it to market?

Microsoft's OpenAI-powers Bing search engine produces questionable results from its use of AI

To Collect The Data

- **Both firms could not submit enough learning data sets/questions to train the models**
- **They need more data to improve the models**
- **Plan:**
 - **Release it in beta**
 - **Used everyone as “testers”**
 - **Improve the models**
- **Both models are getting better by the day**
(a strategic competitive decision)



Can Someone Compete?

What is the possibility of a smaller firm competing with these two behemoth companies?

Possibly

- **Maybe** there is another OpenAI out there who has “built a better mousetrap”
- **Maybe** an organization has the specific data for an industry that makes it the winner in that industry
- **Maybe** firms can use/buy the AI models for areas they don’t know and combine them with their own (in house) models to make something your competitors can’t

(a management strategy decision)

Will These AI Marketplace Changes Affect my portfolio?

How will this affect me and my portfolio?

Yes
Most likely

Your job is

- To understand AI
- To understand how AI works
(as well as current limitations)
- To know where to apply this new knowledge in your portfolio decisions.

Let's understand AI so you can do a better job....

Machine Learning

The next step in the business evolution

Machine Learning

What is Machine Learning



Machine learning is the idea that a computer program can adapt to new data independently (no human action required)

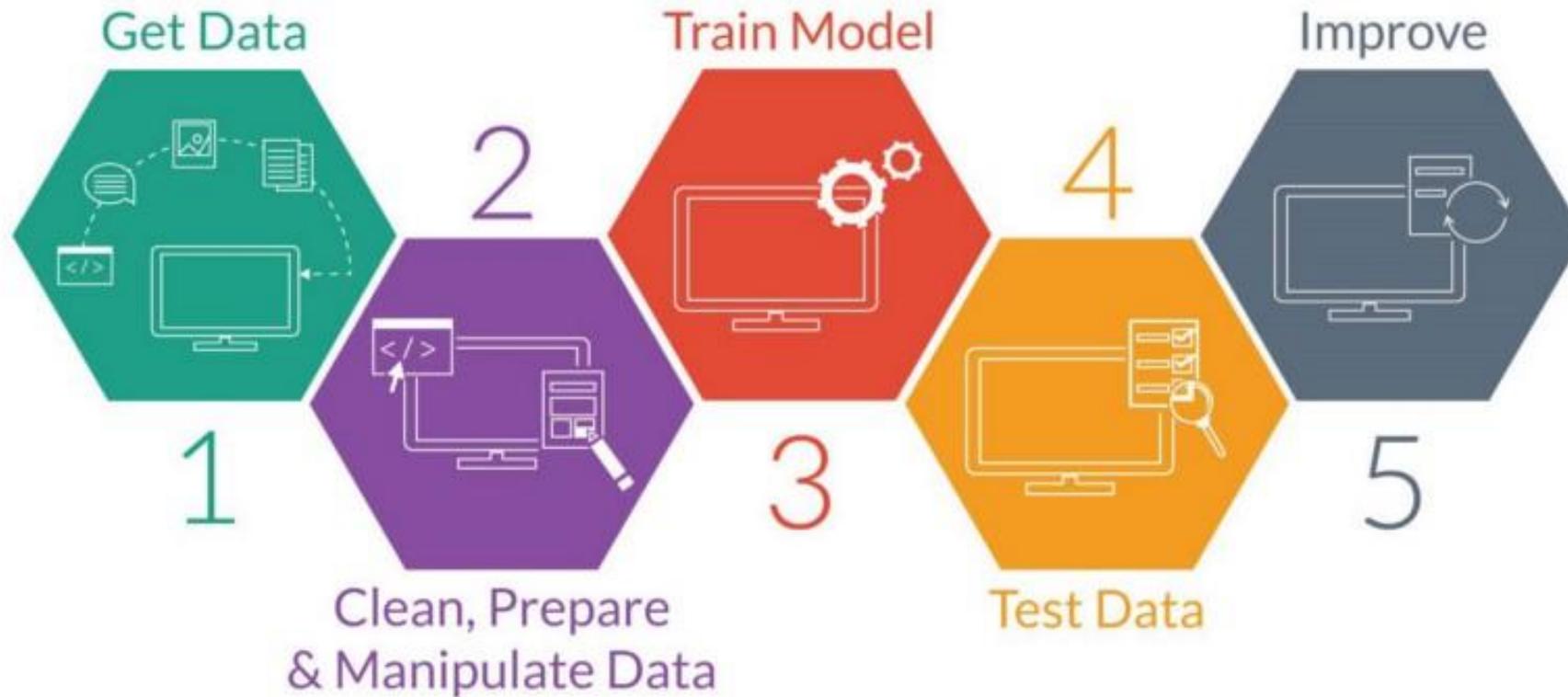
The science of getting computers to act without being explicitly programmed



We don't know what to ask it,
so we can't program it to find out

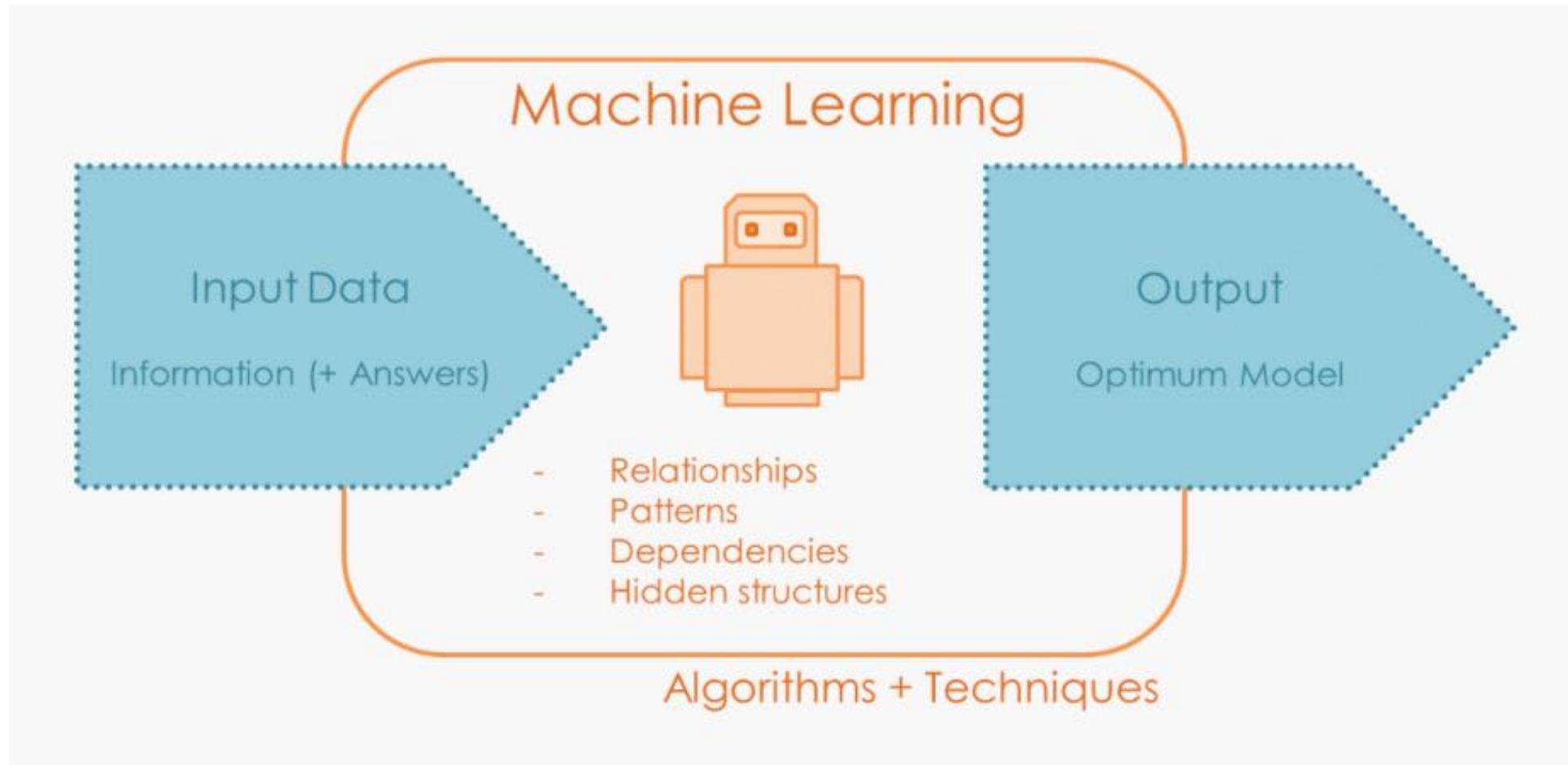
Machine Learning Model

Process by which machines improve on output results through a series of steps



Supervised / Unsupervised Learning

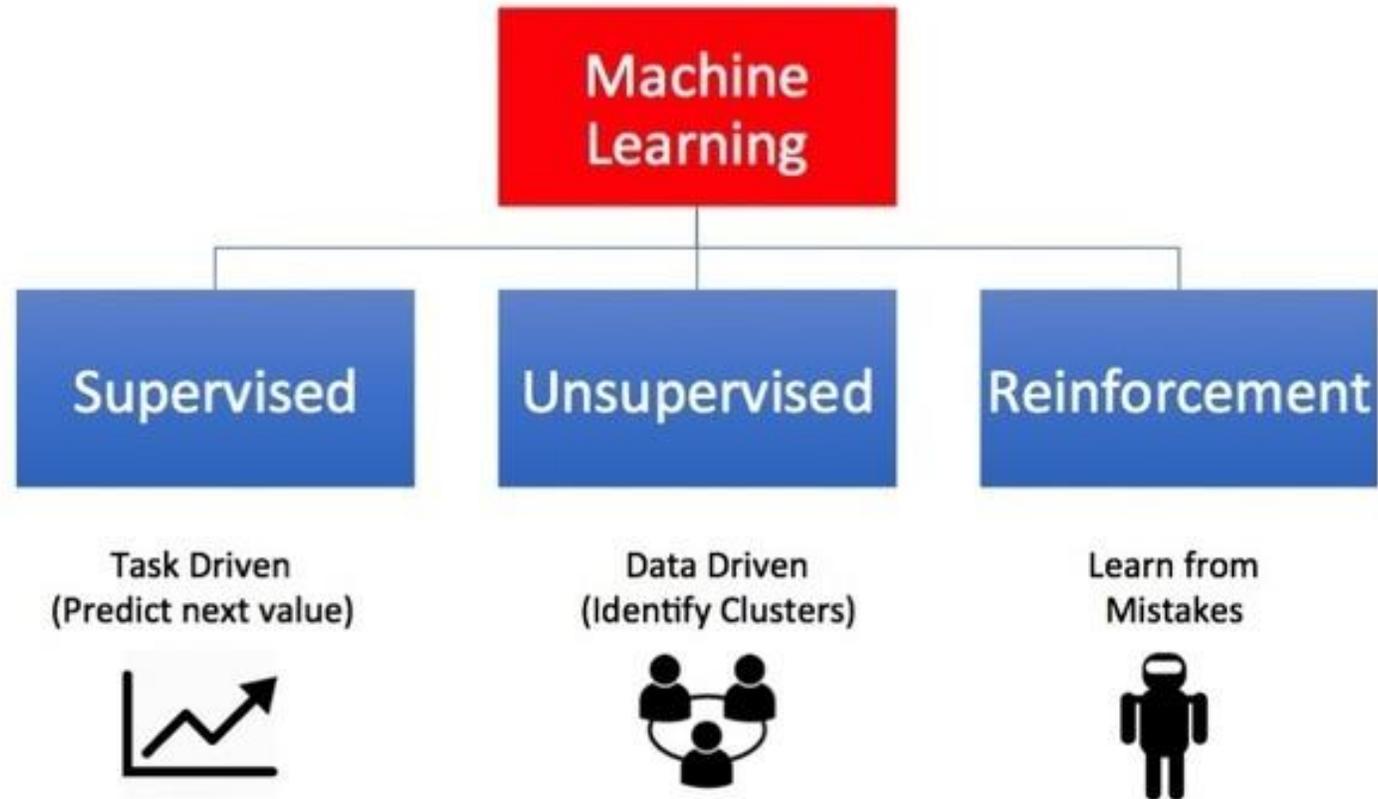
Seeking a model as the output



Supervised / Unsupervised Learning

Types of learning

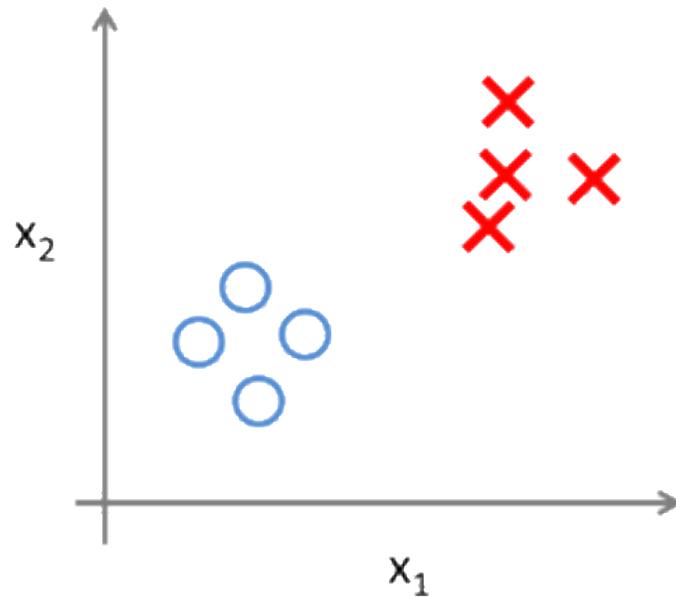
Types of Machine Learning



Supervised / Unsupervised Learning

Differences

Supervised Learning

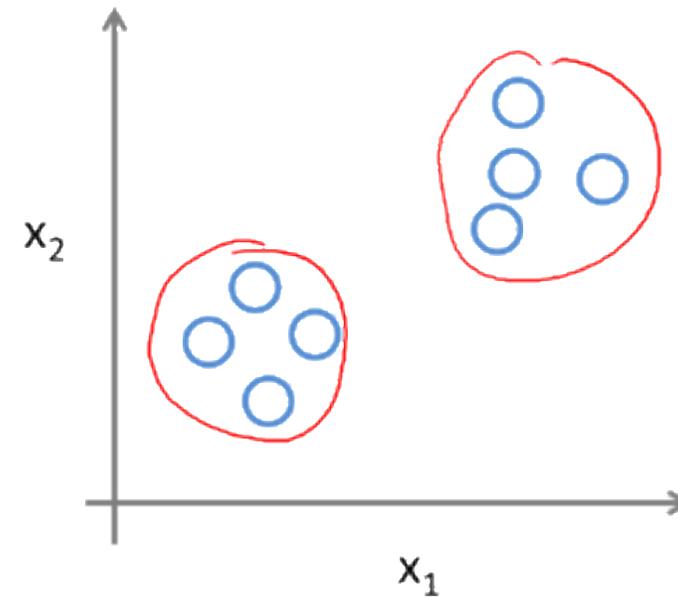


Data has **known** labels

Seeking **specific output**

Example: Fraud Detection

Unsupervised Learning



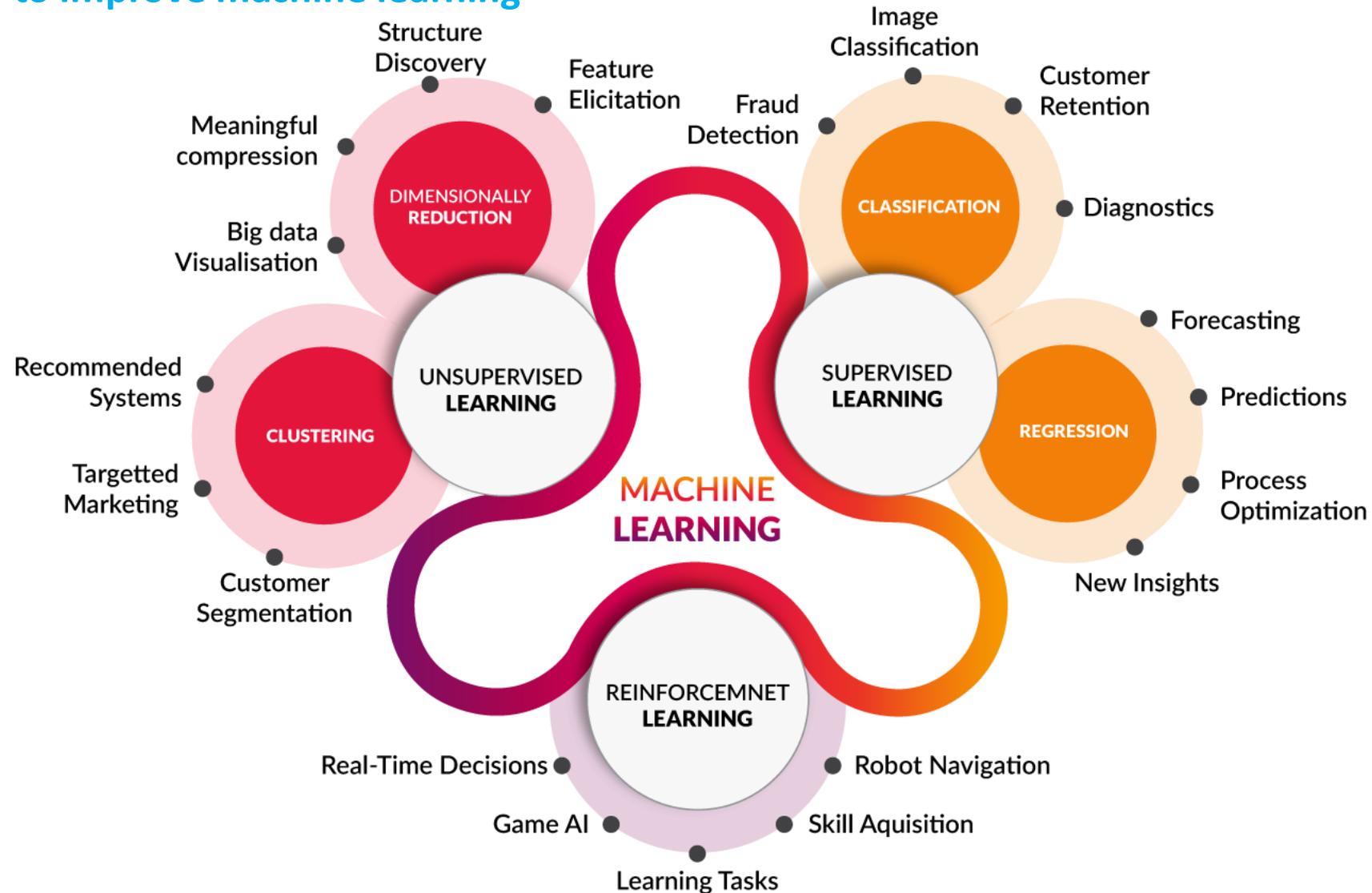
Data has **unknown** labels

Seeking **patterns**

Example: Customer Segmentation Clustering

Supervised / Unsupervised/ Reinforcement Learning

Methods to improve machine learning



Supervised / Unsupervised Learning

Methods to improve machine learning

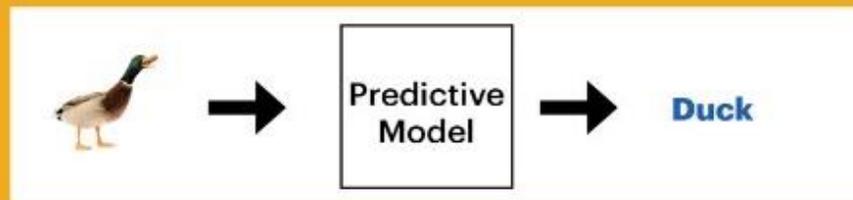
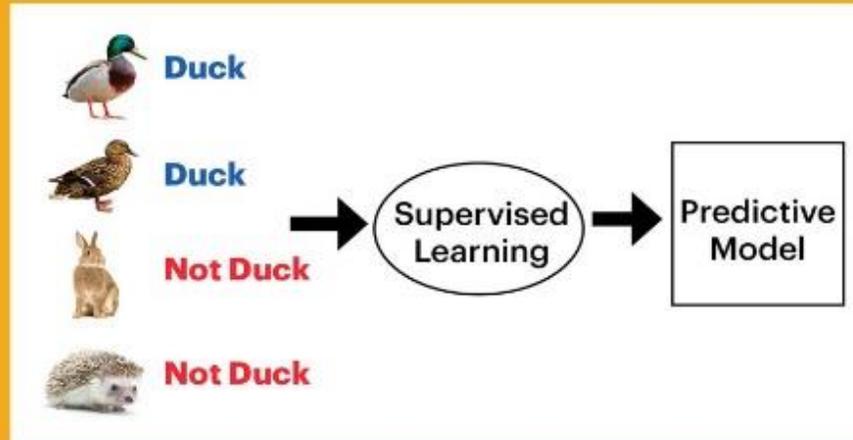


Expense



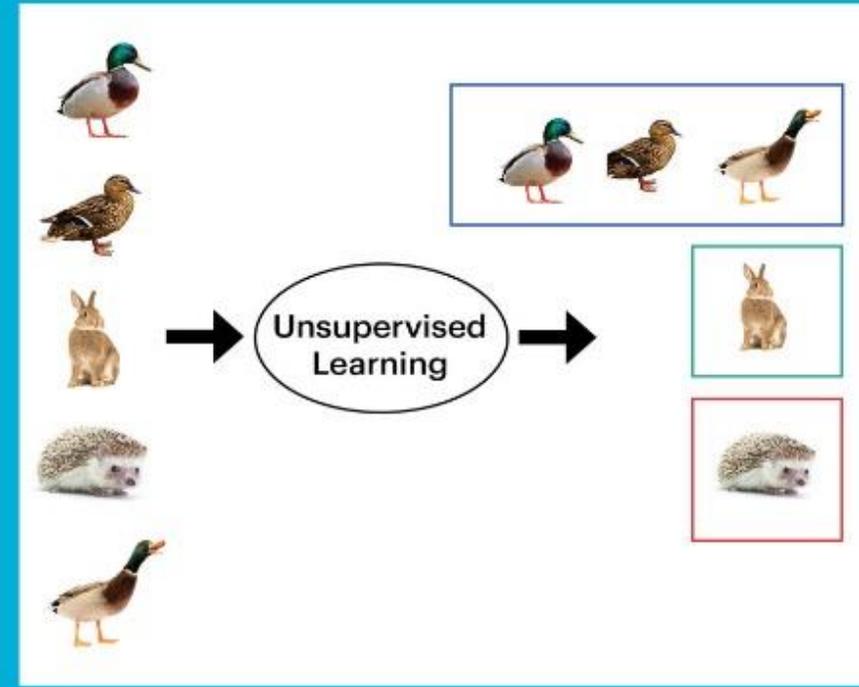
Errors

Supervised Learning (Classification Algorithm)



More Expensive / Takes Longer to Develop

Unsupervised Learning (Clustering Algorithm)

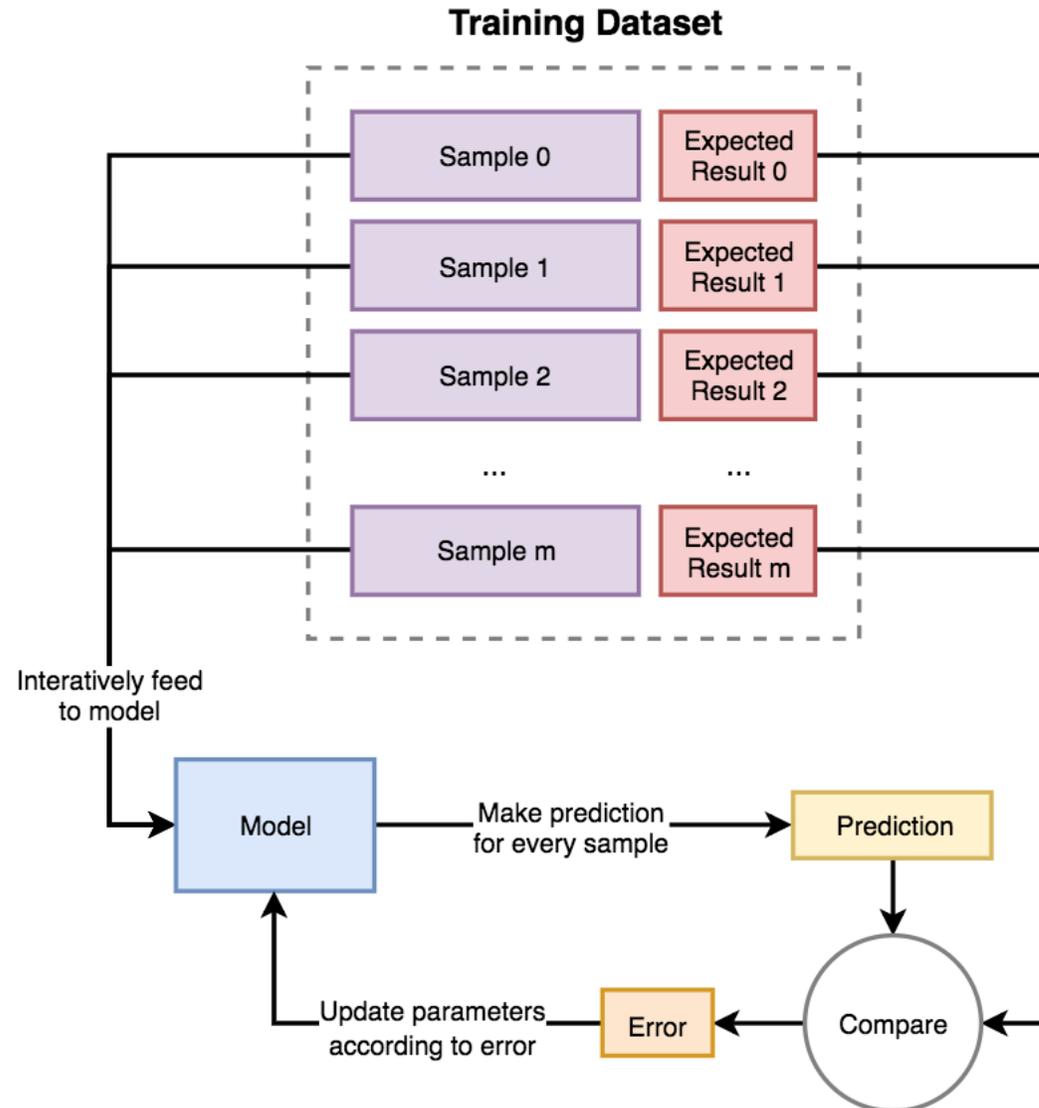


More Errors (Initially)

How Supervised Learning Works

Method to improve machine learning

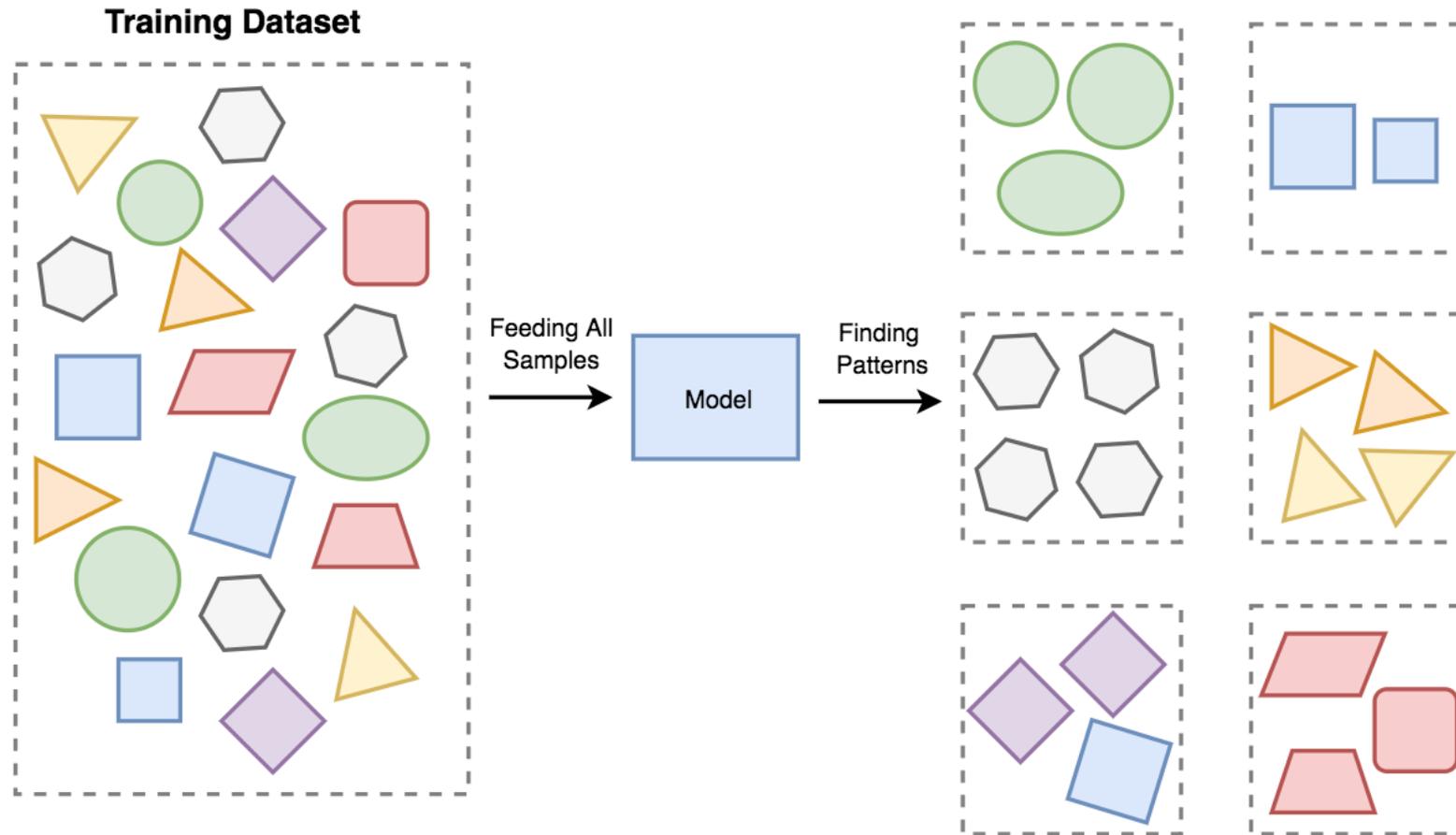
Supervised



How Unsupervised Learning Works

Method to improve machine learning

Unsupervised



All data is fed to the model and it produces an output on it's own based on similarity between samples and algorithm used to create the model.

How Supervised Learning Works

Method to improve machine learning



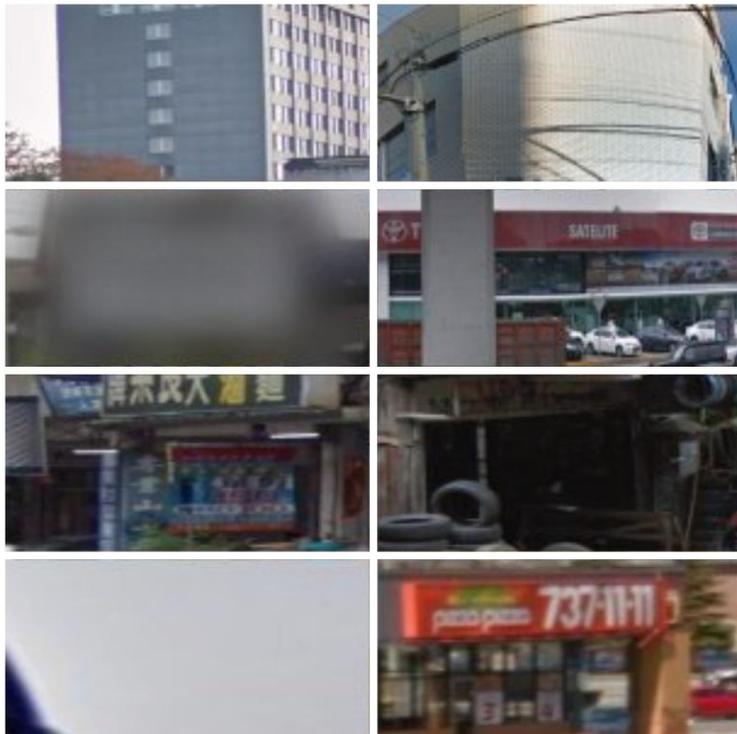
reCAPTCHA



How Supervised Learning Works

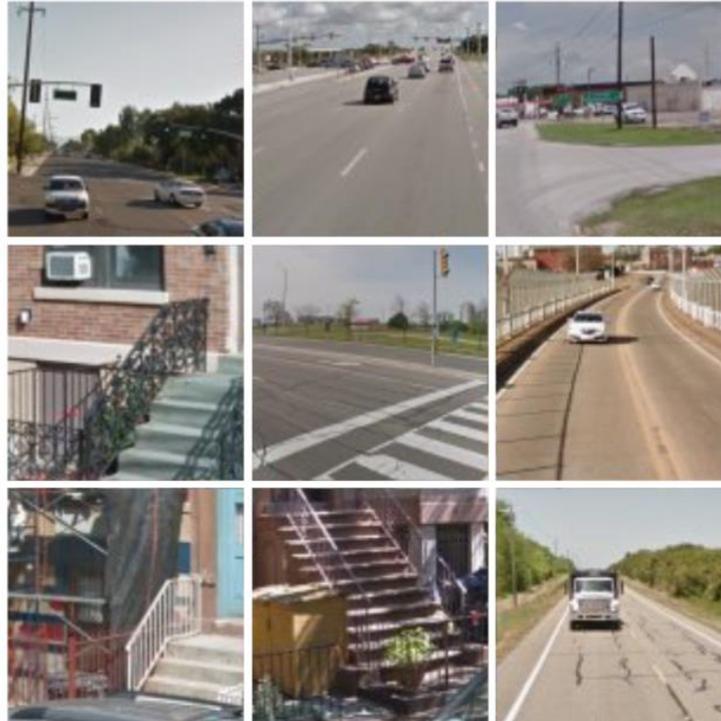
Method to improve machine learning

Select all images with a
store front



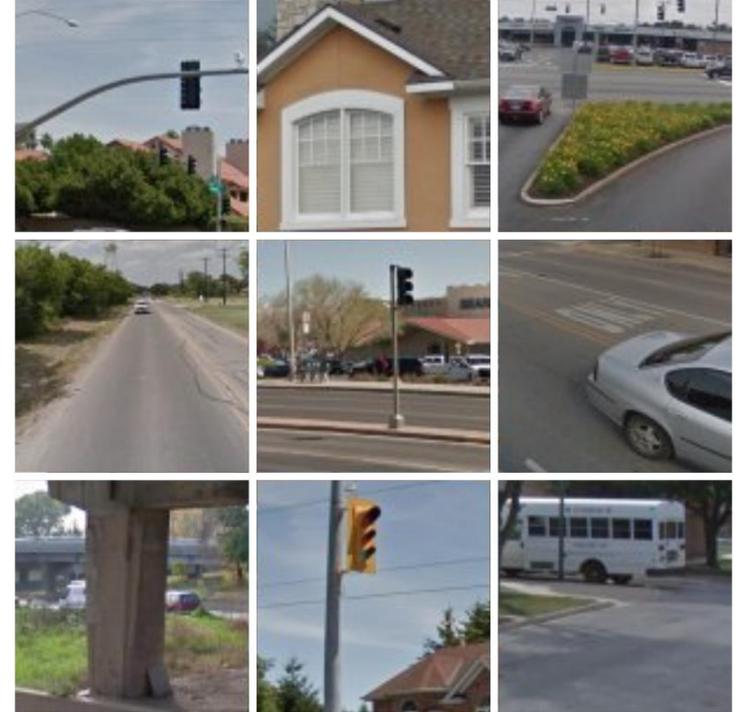
VERIFY

Select all images with
stairs



VERIFY

Select all images with
traffic lights



VERIFY

Artificial Intelligence Improves from Machine Learning

Machine Learning need lots of data from prior experience of things humans have done many times.

AI is good at doing something we've done before.

**It's not good at doing something new
(that is for humans)**

But that is changing fast

Trucking

Construction

Warehousing

Farming

All currently being automated

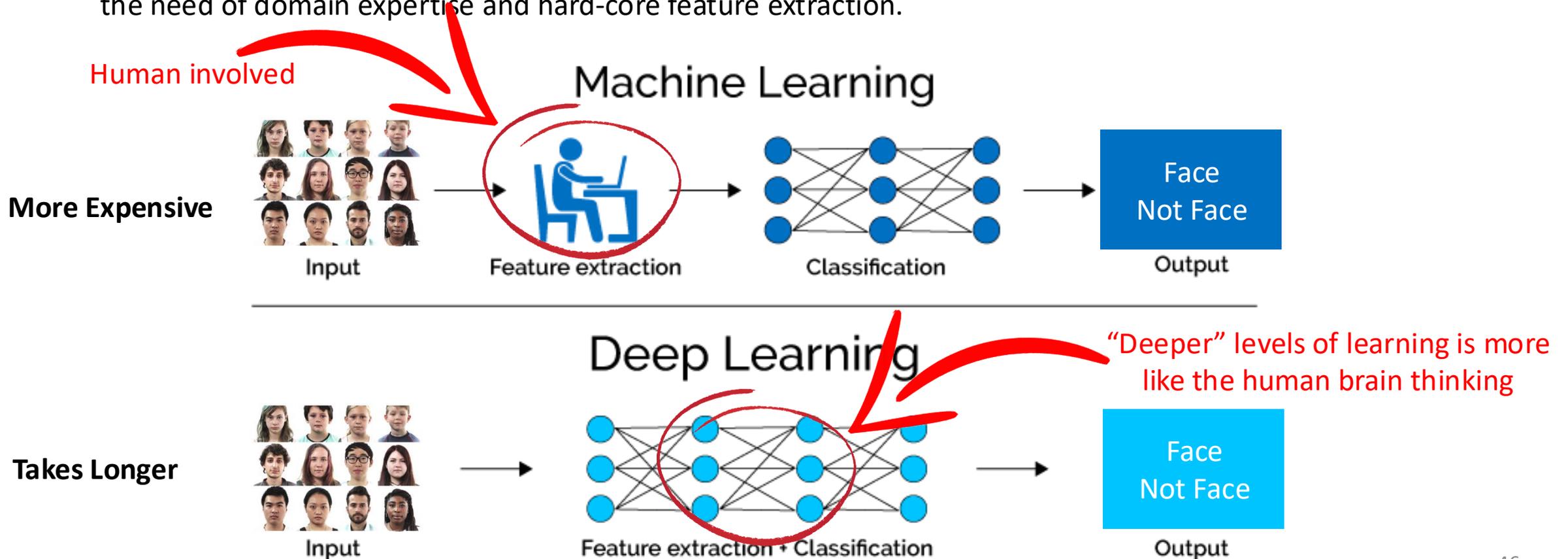
Deep Learning

Machines using more robust processes to build greater understanding

Machine Learning / Deep Learning

Deep learning is a subset of machine learning

In traditional **Machine learning**, the features need to be identified by an expert in order to reduce the complexity of the data and make patterns more visible to the algorithms to work. The biggest advantage **Deep Learning** algorithms is they try to learn high-level features from data in an incremental manner. This eliminates the need of domain expertise and hard-core feature extraction.



Machine Learning / Deep Learning

Deep learning is a subset of machine learning



A Face

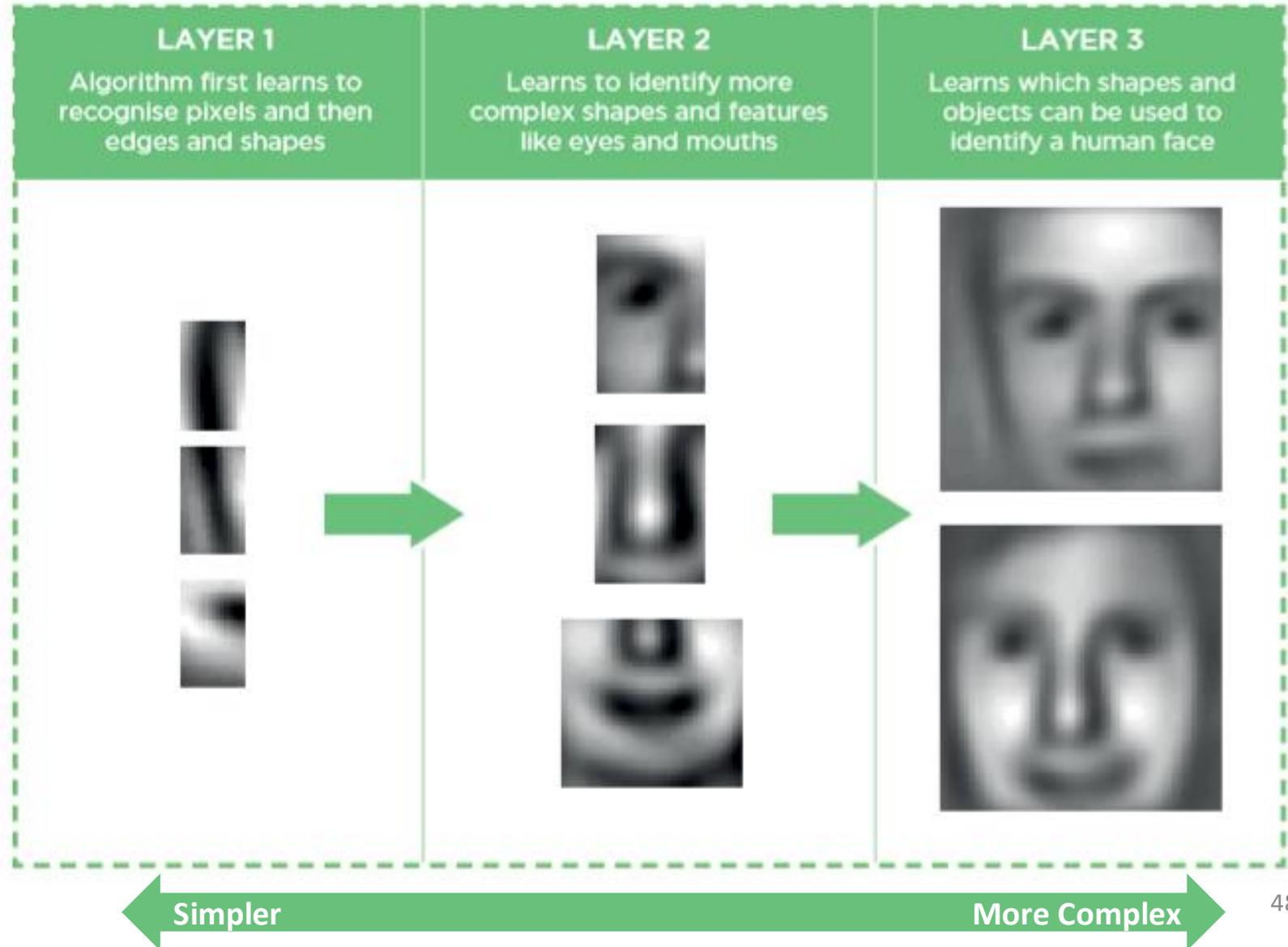
Or...

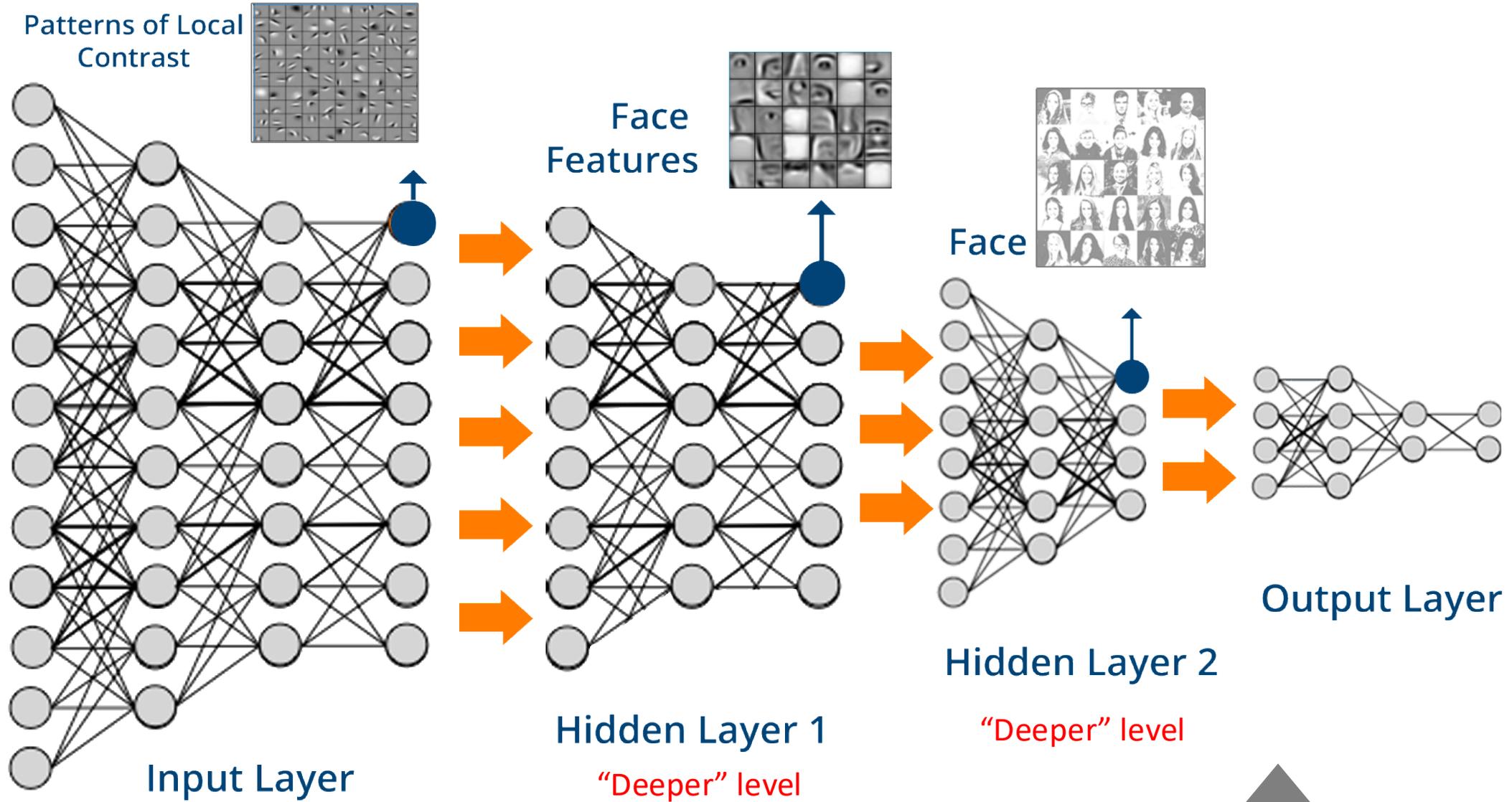
- ...Car
- ...Tree
- ...Dog
- ...Cat
- ...Storefront
- ...Stairs
- ...Traffic light

Machine Learning / Deep Learning

Deep learning is a subset of machine learning

Deep Learning is a subset of Machine Learning *that achieves great power and flexibility by learning to represent the world as **nested hierarchy of concepts**, with each concept defined in relation to simpler concepts, and more abstract representations computed in terms of less abstract ones.*





With more data, we could say "who" is the face

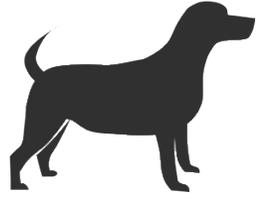


Photo of a Dog

Training Images
Highly Defined and known

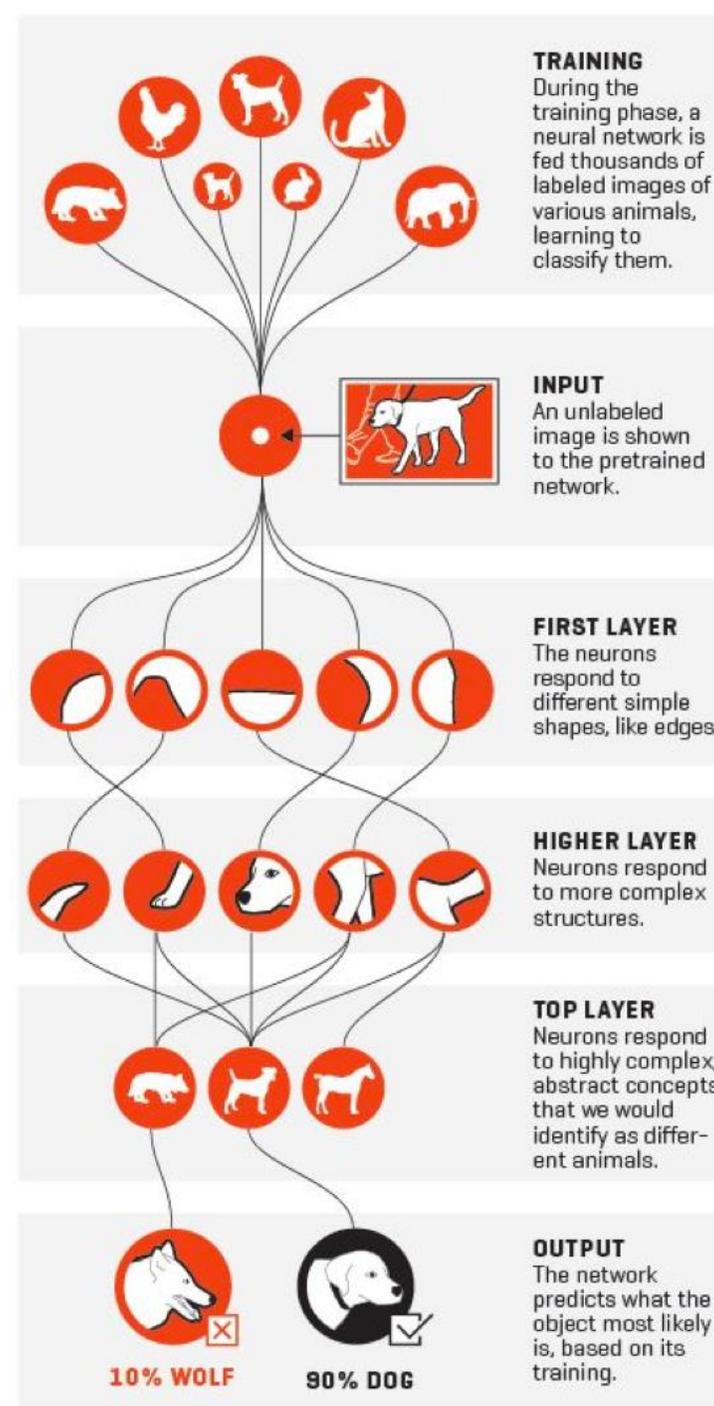
Photo in question
(Input)

Layer 1

Layer 2

Layer 3

Output
With best estimate



Machine Learning / Deep Learning

Deep learning is a subset of machine learning

Classification



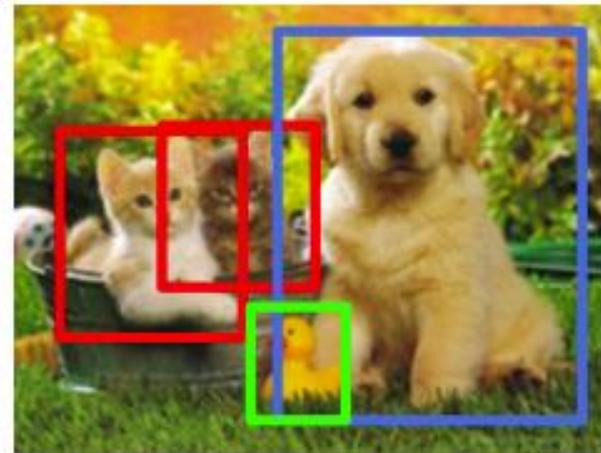
CAT

**Classification
+ Localization**



CAT

Object Detection



CAT, DOG, DUCK

**Instance
Segmentation**



CAT, DOG, DUCK

Deep Learning Problem Solving Approach

A difference between Deep Learning & Machine Learning technique is the problem solving approach

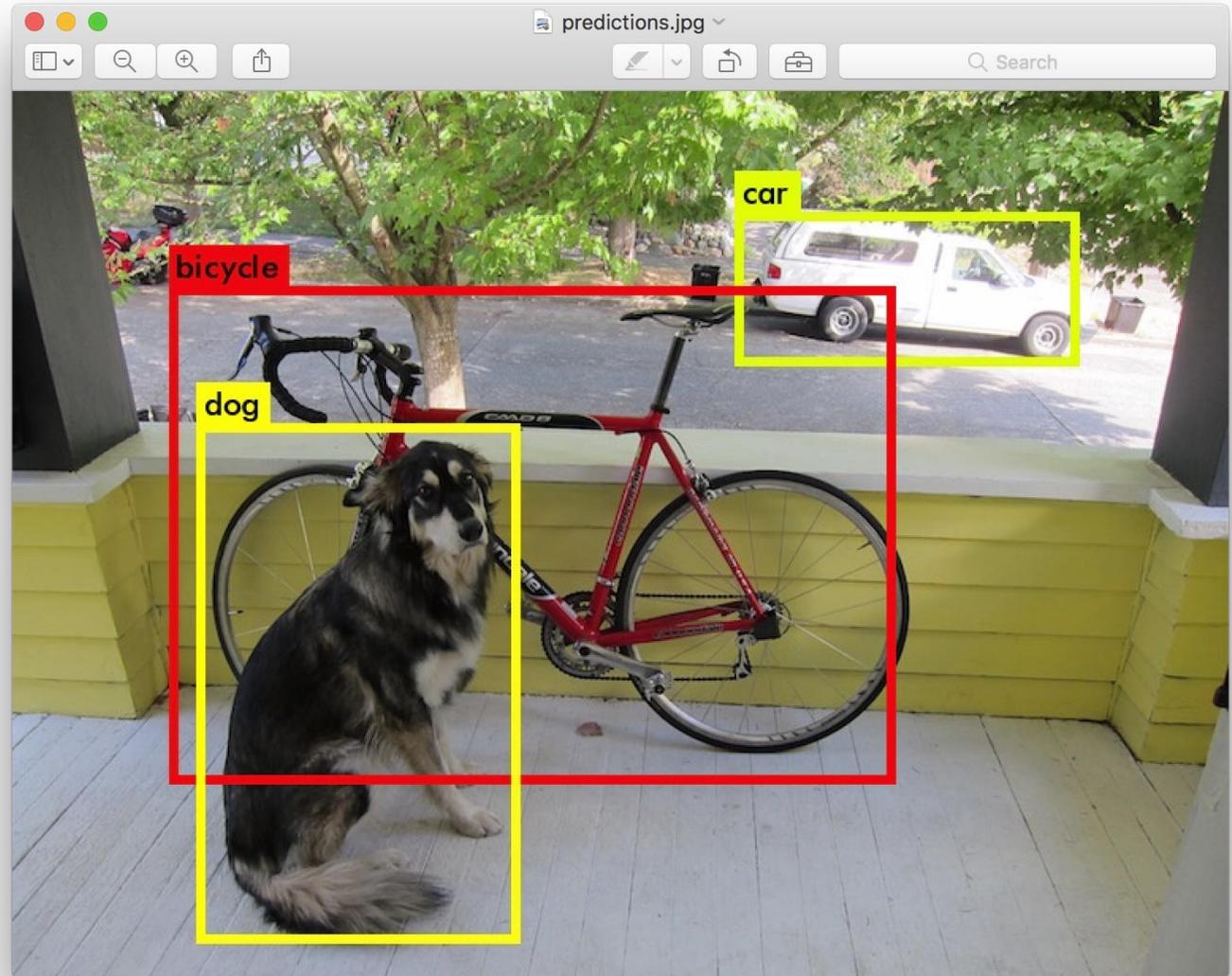
Deep Learning techniques tend to **solve the problem end to end**, where as **Machine learning** techniques need the problem statements to **break down to different parts to be solved** first and then their results to be combine at final stage.

Example: Multiple Object Detection

Deep Learning techniques take the image as input and provide the location and name of objects at output.

Machine Learning algorithms need a bounding box object detection algorithm required to first to identify all possible objects for input to the learning algorithm in order to recognize relevant objects.

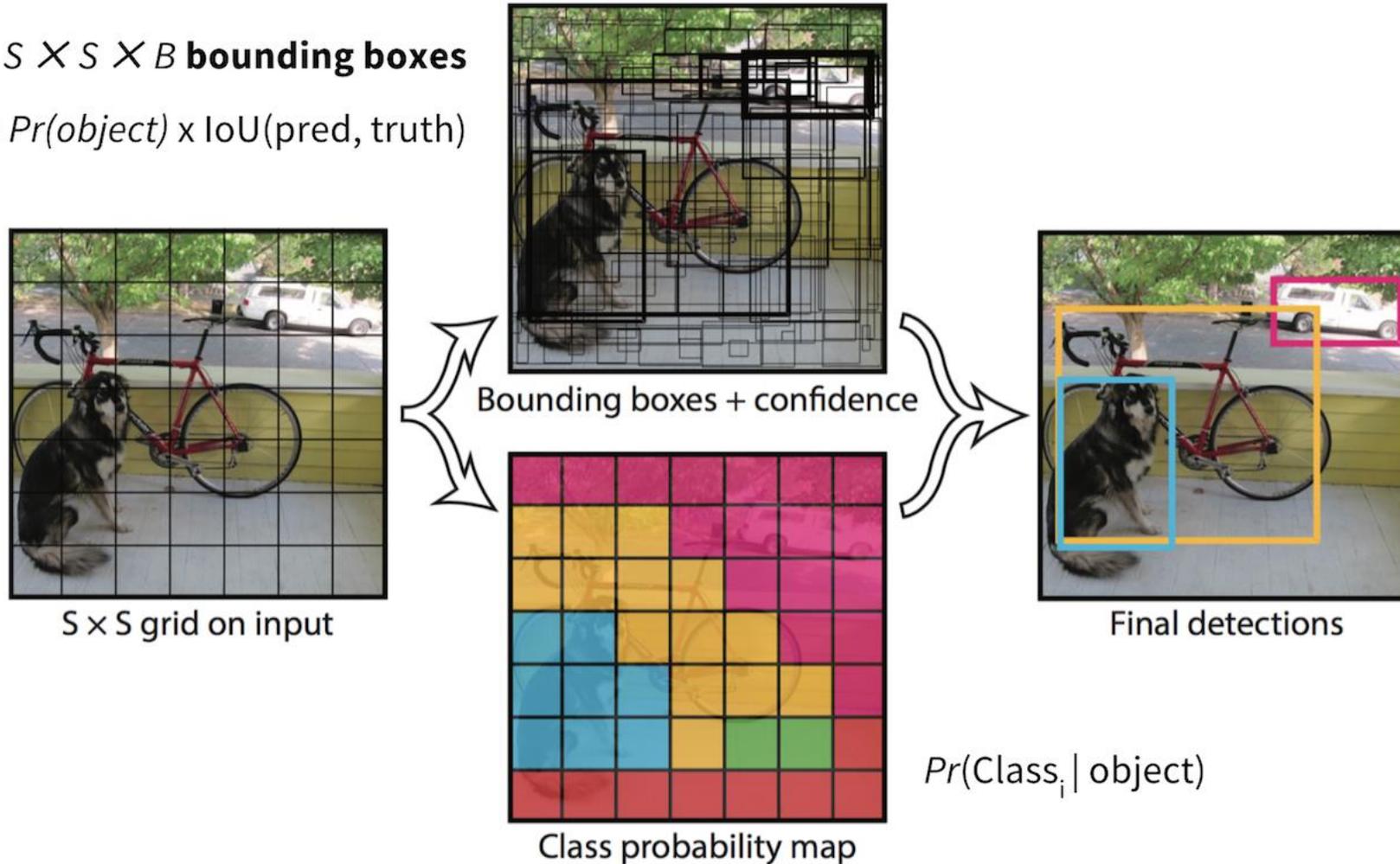
Both work together here.



Deep Learning Problem Solving Approach

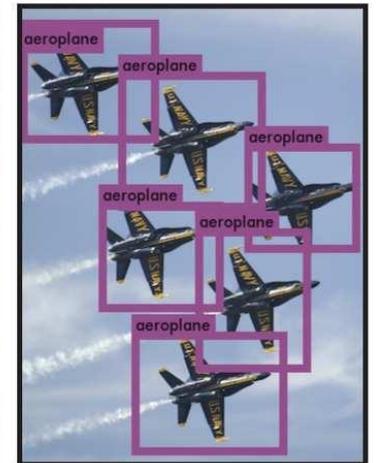
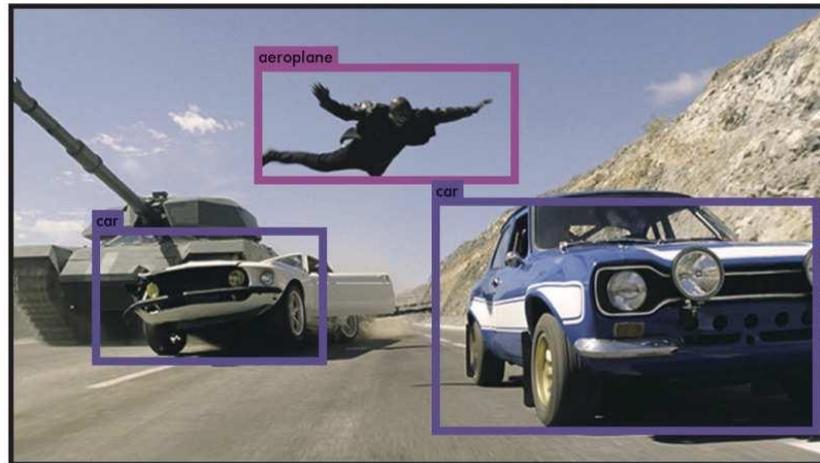
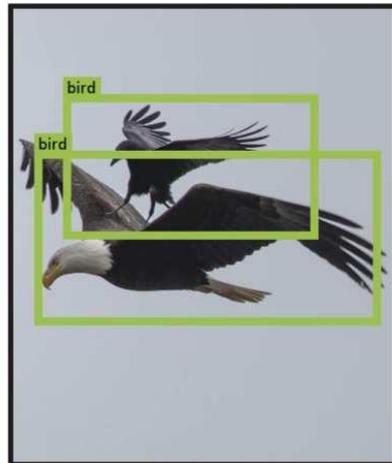
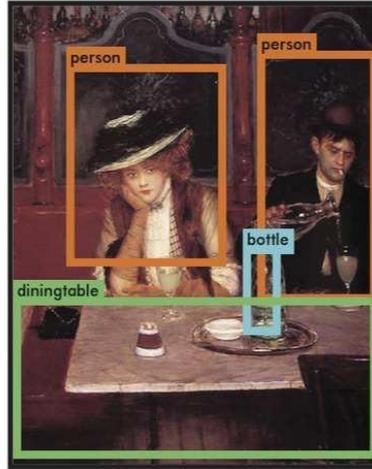
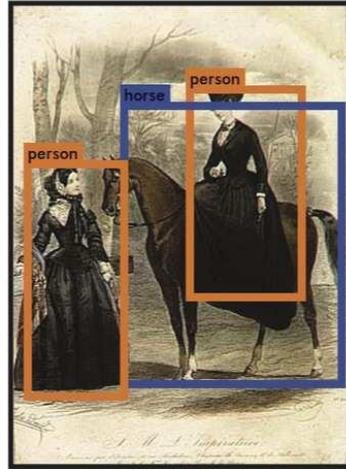
A difference between Deep Learning & Machine Learning technique is the problem solving approach

$S \times S \times B$ bounding boxes
confidence = $Pr(object) \times IoU(pred, truth)$

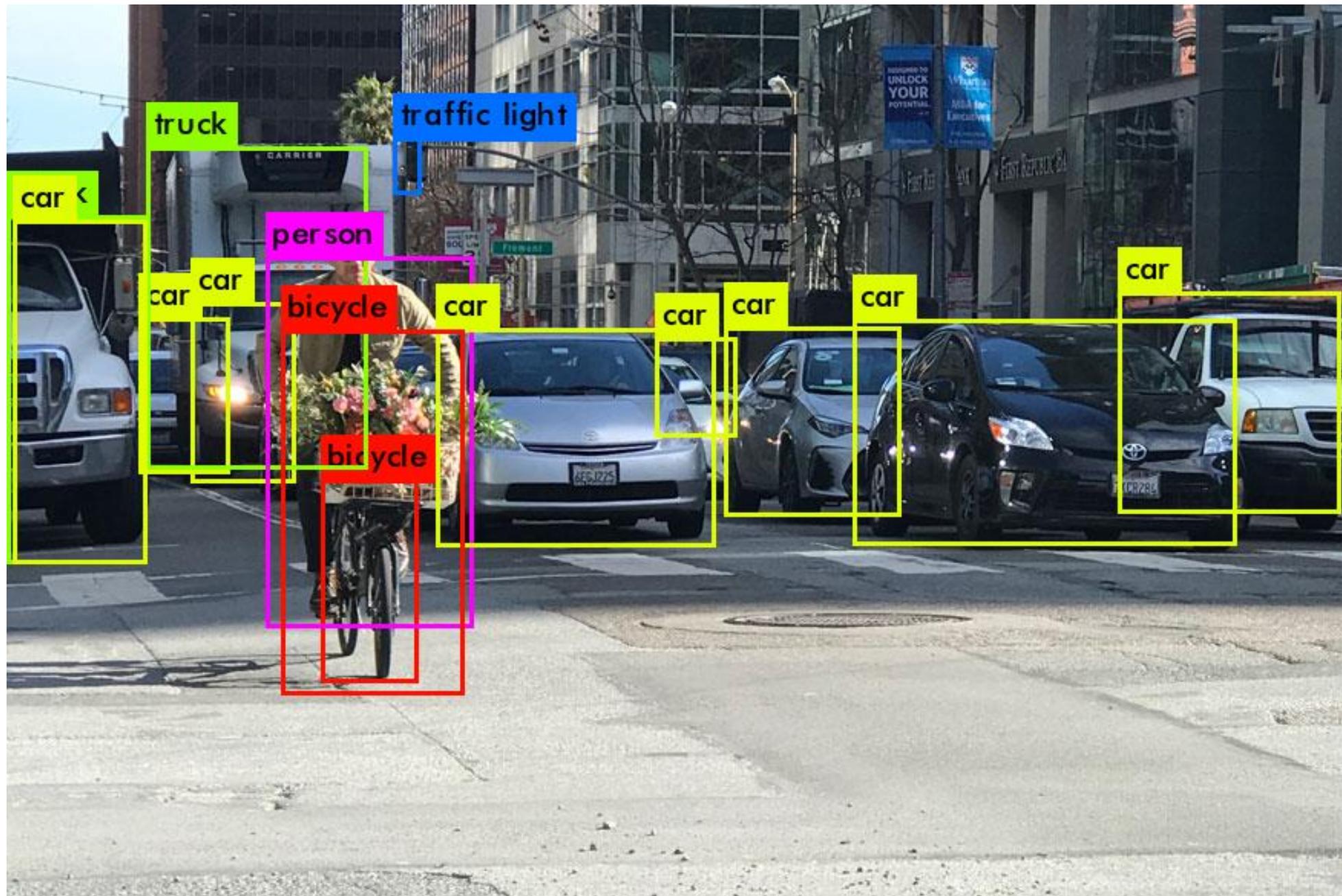


Deep Learning Problem Solving Approach

A difference between Deep Learning & Machine Learning technique is the problem solving approach







Telsa Autonomous Driving

What a Telsa automobile “sees”



<https://streamable.com/g568gc>

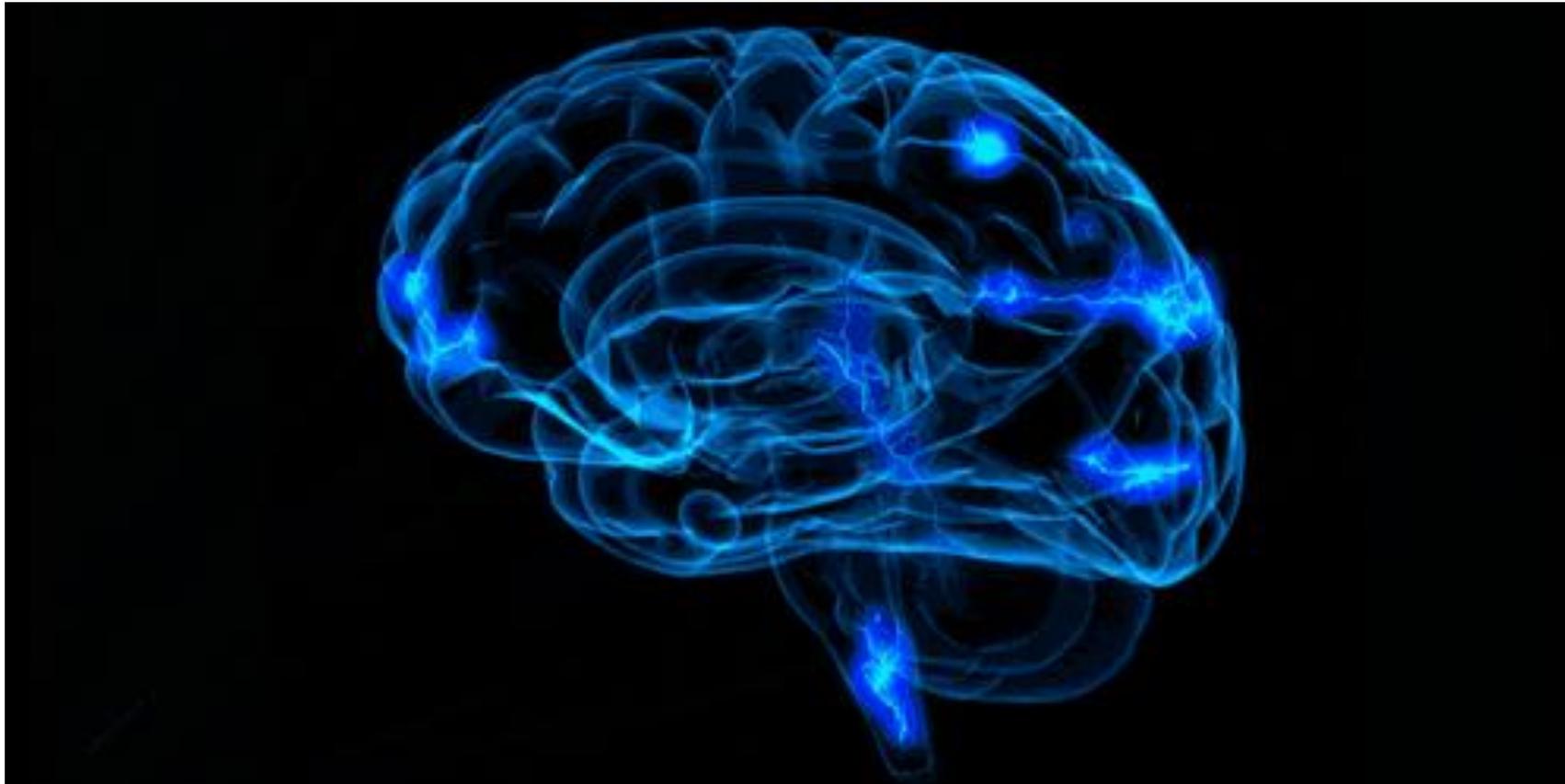
Neural Networks

Computers “thinking like your brain”

Neural Networks

Mimic of human brain activity

We know the human brain works by sending electrical impulses from cell to cell (**spheres of knowledge**)

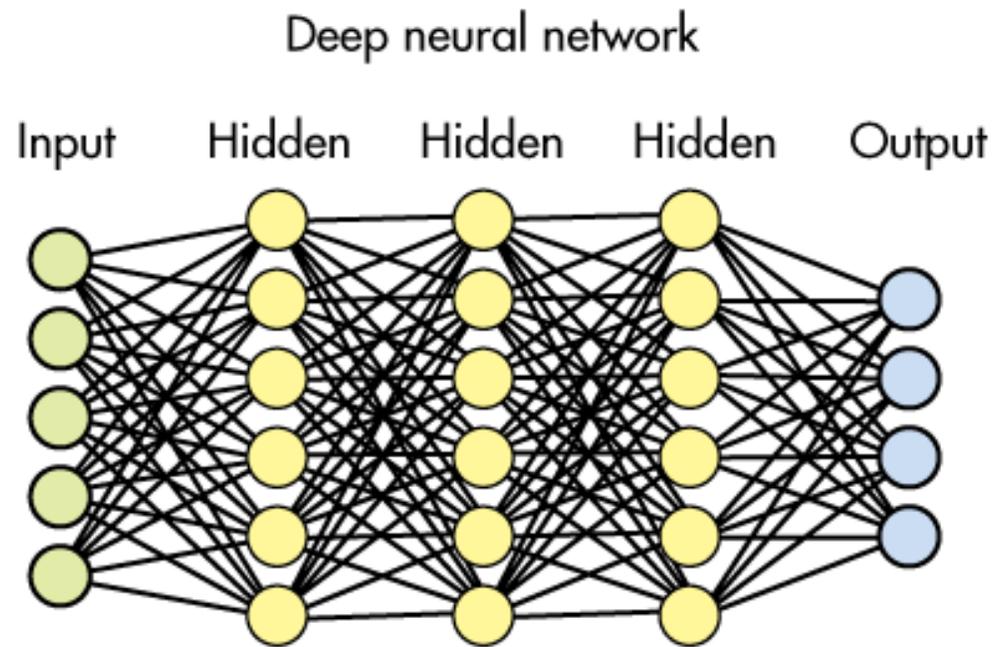
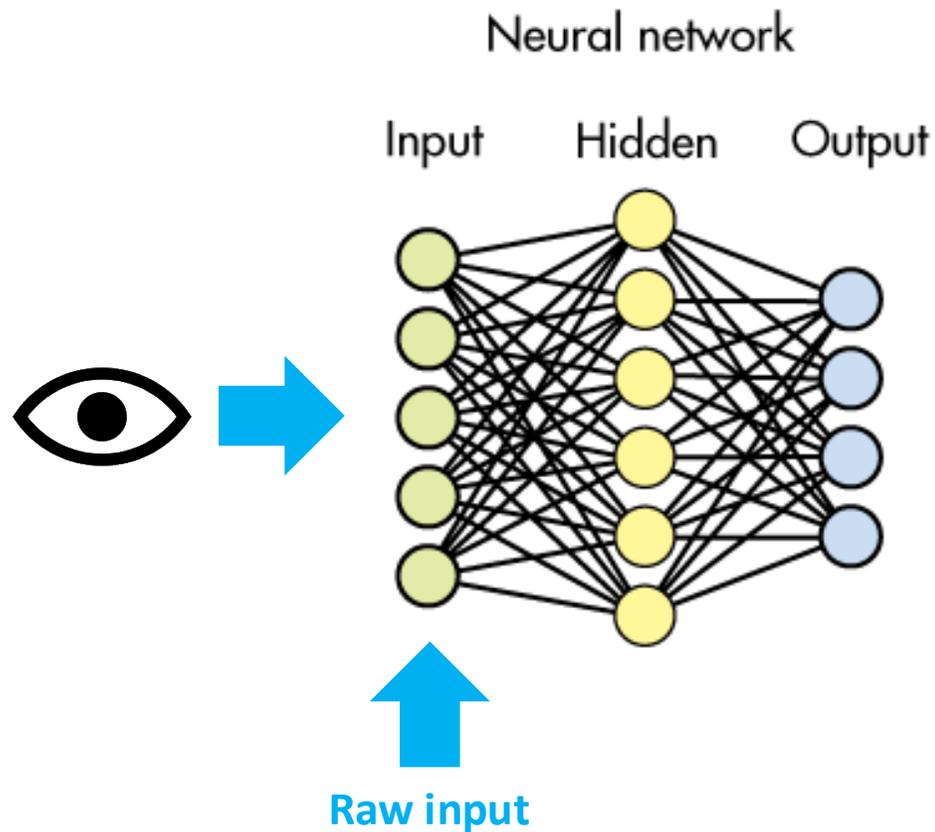


Neural Networks

An understanding of how the machine mimics the way a human brain processes information

The first tier receives the raw input information...

...analogous to optic nerves in human visual processing

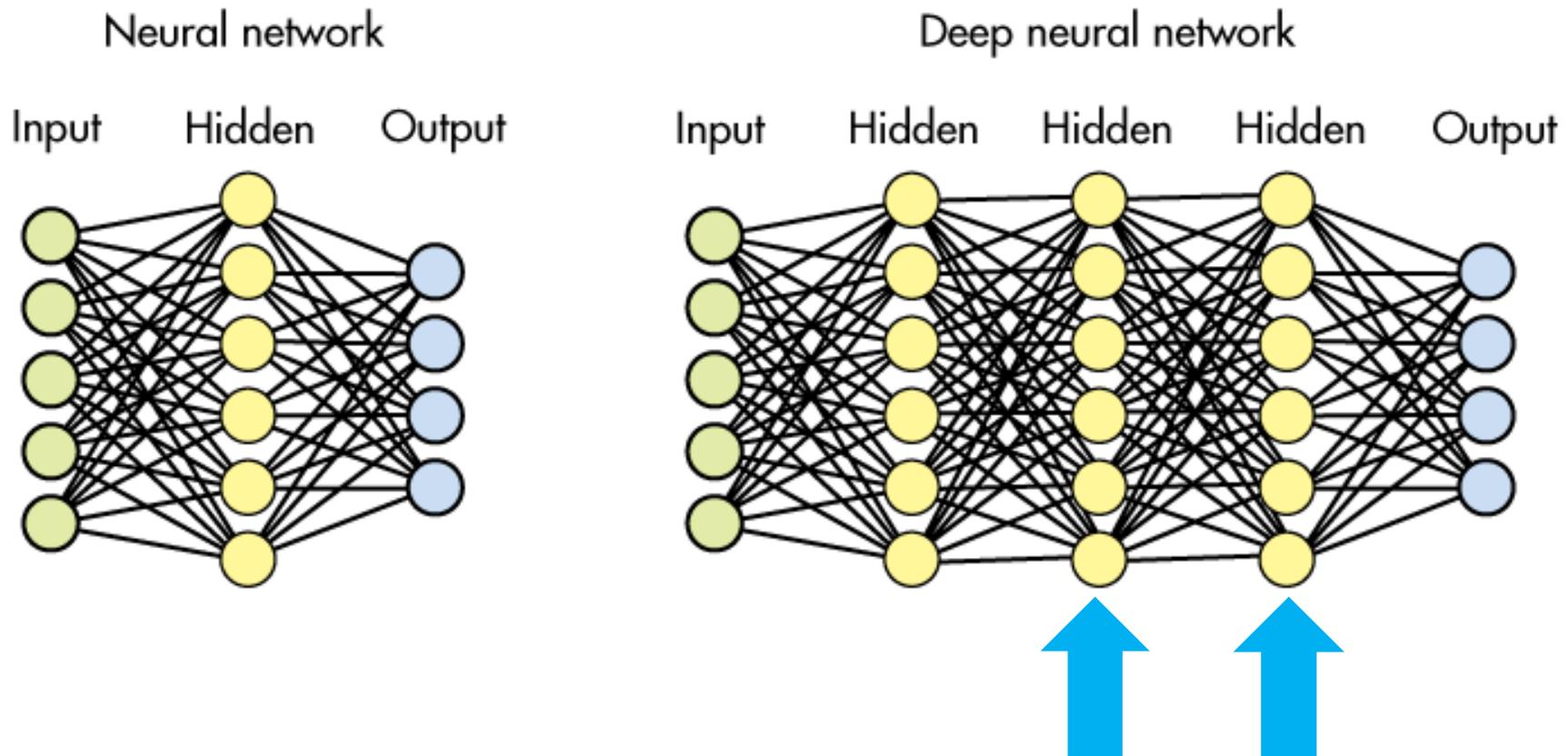


Neural Networks

An understanding of how the machine mimics the way a human brain processes information

Each successive tier receives the **output from preceding tier**, rather than from the raw input ...

...in the same way neurons further from the optic nerve receive signals from those closer to it.
The last tier produces the output of the system.



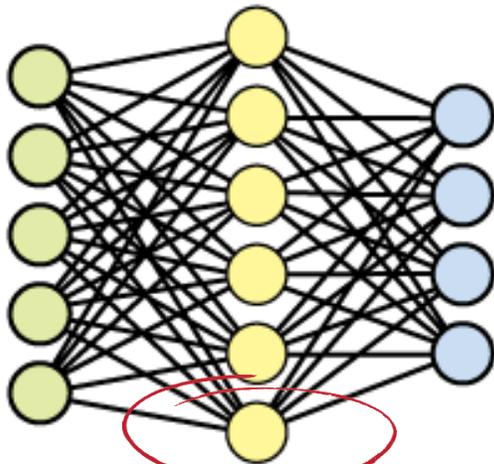
Neural Networks

An understanding of how the machine mimics the way a human brain processes information

Each processing node has its own **small sphere of knowledge**, including what it has seen and any rules it was originally programmed with or developed for itself. The tiers are highly interconnected, which means **each node in tier n will be connected to many nodes in tier n-1** -- its inputs -- and in tier n+1, **which provides input for those nodes**. There may be one or multiple nodes in the output layer, from which the answer it produces can be read.

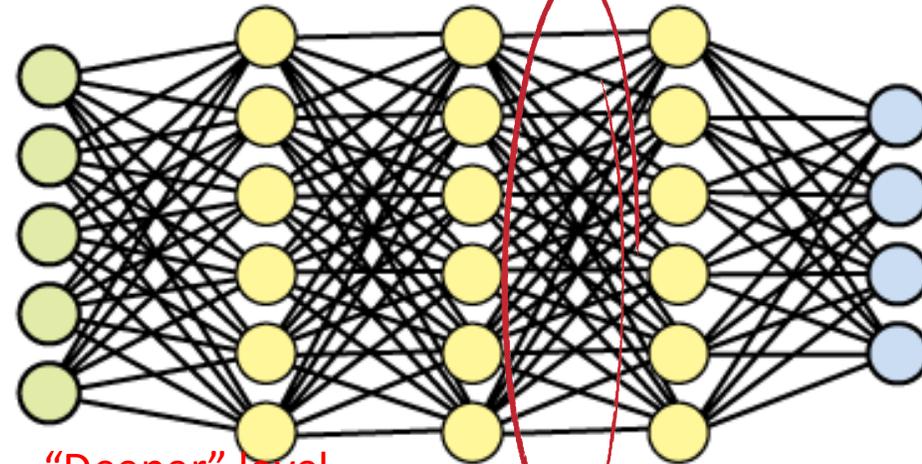
Neural network

Input Hidden Output



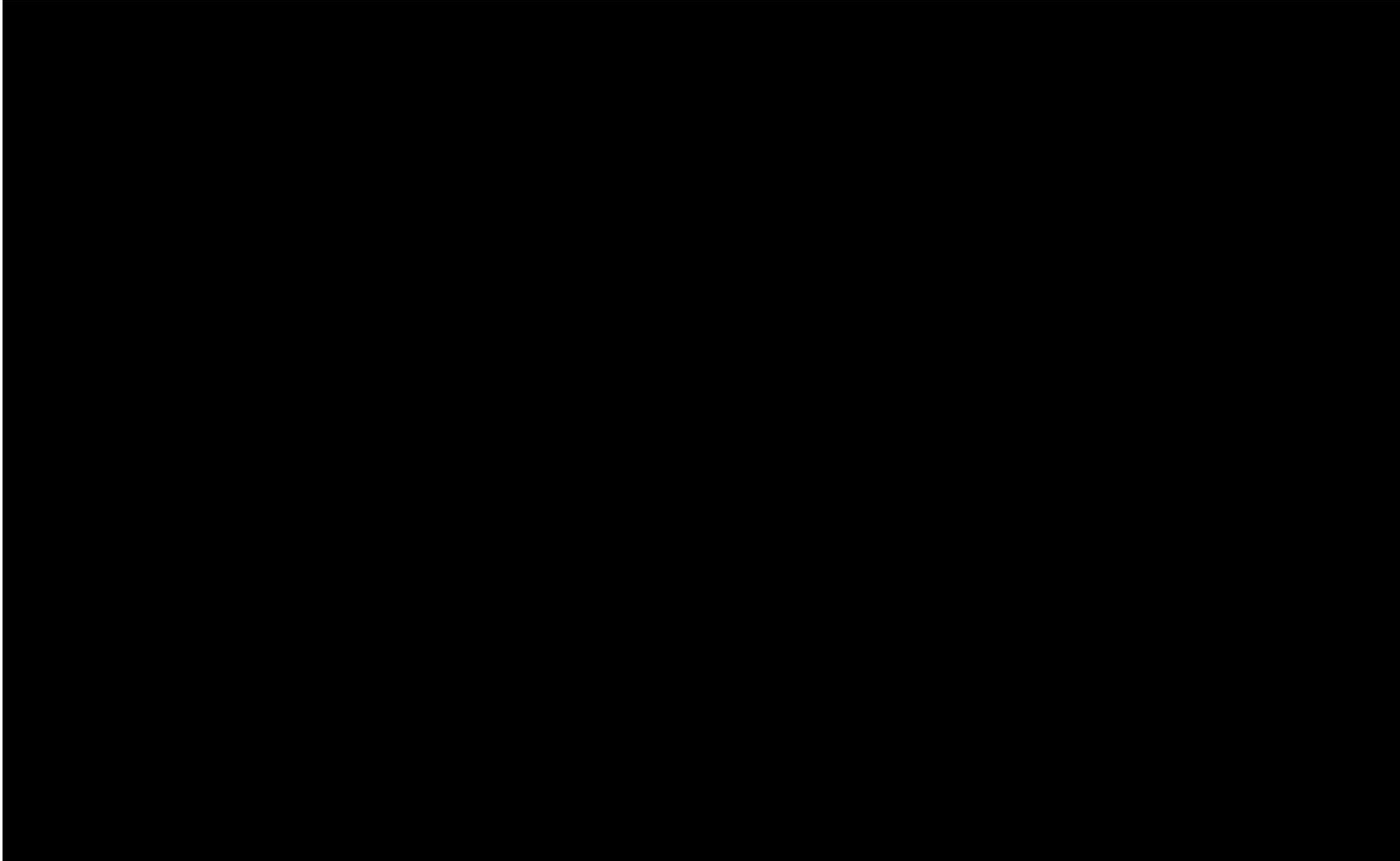
Deep neural network

Input Hidden Hidden Hidden Output



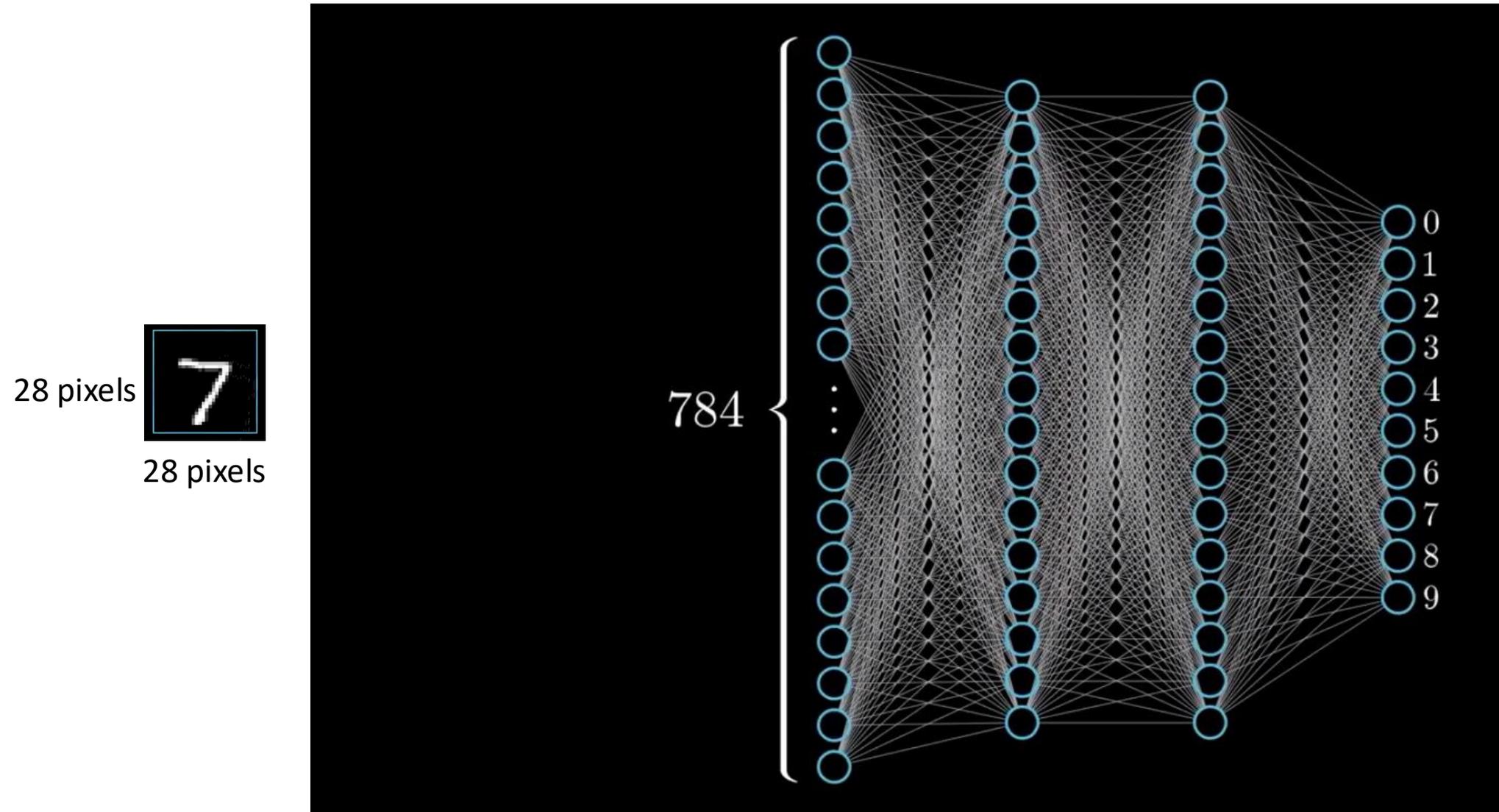
Neural Networks

An understanding of how the machine mimics the way a human brain processes information



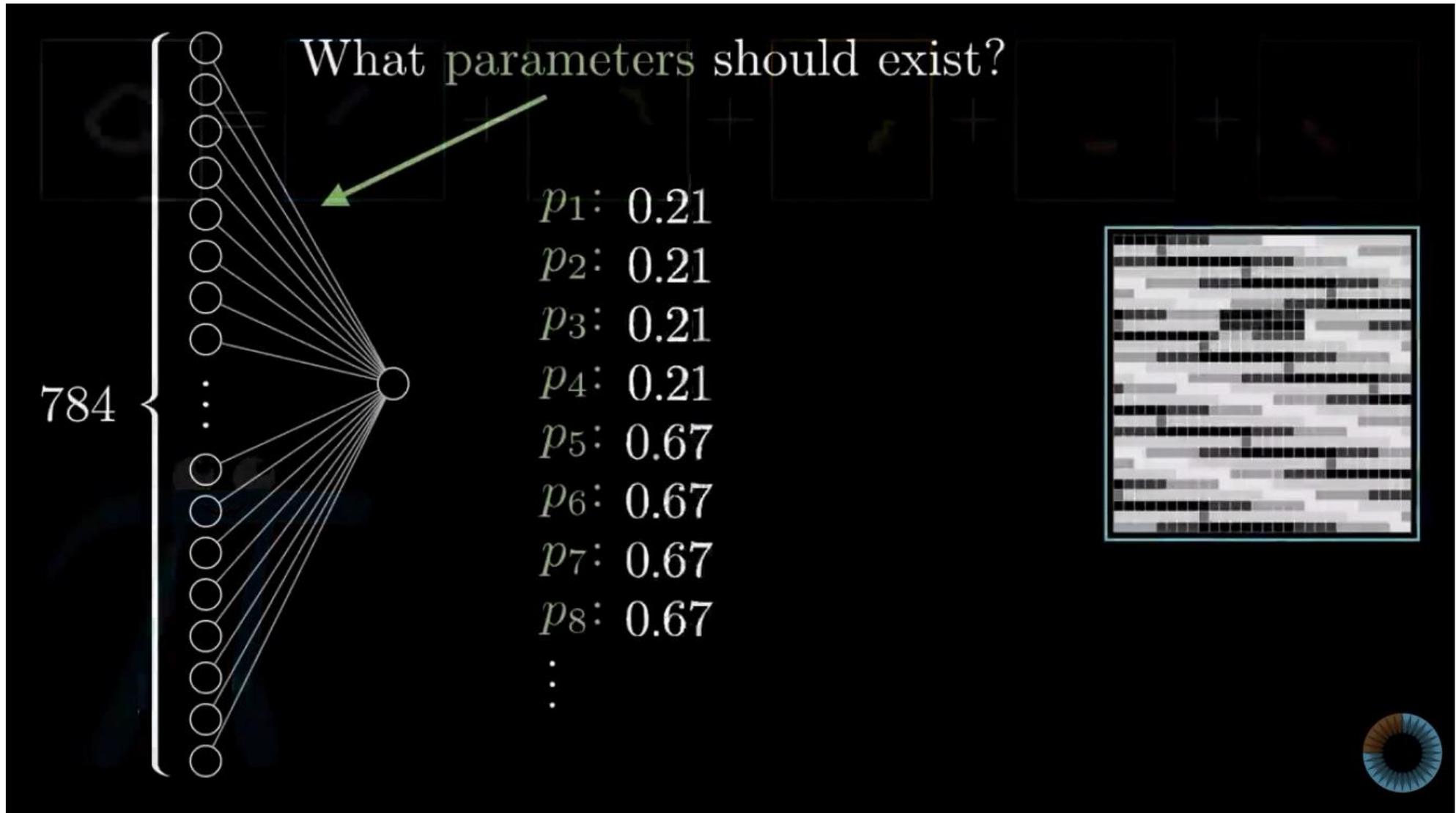
Neural Networks

An understanding of how the machine mimics the way a human brain processes information



Neural Networks

An understanding of how the machine mimics the way a human brain processes information



Apply Facial Patter Recognition to Human Emotion

Subtle and nuanced patterns require significant "learning" by a neural network



Happiness

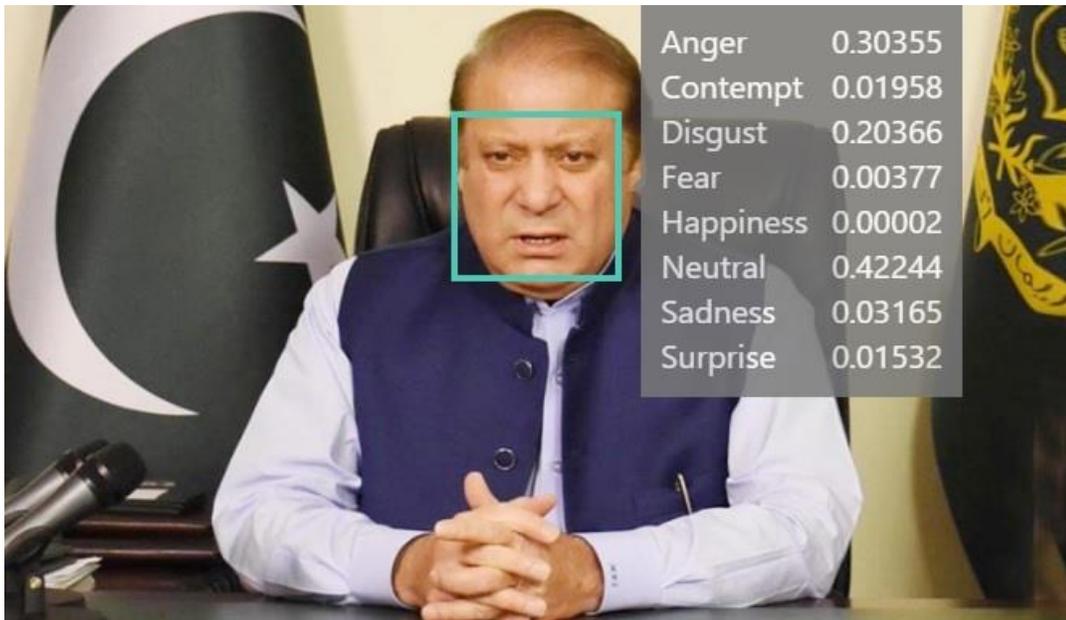


Anger

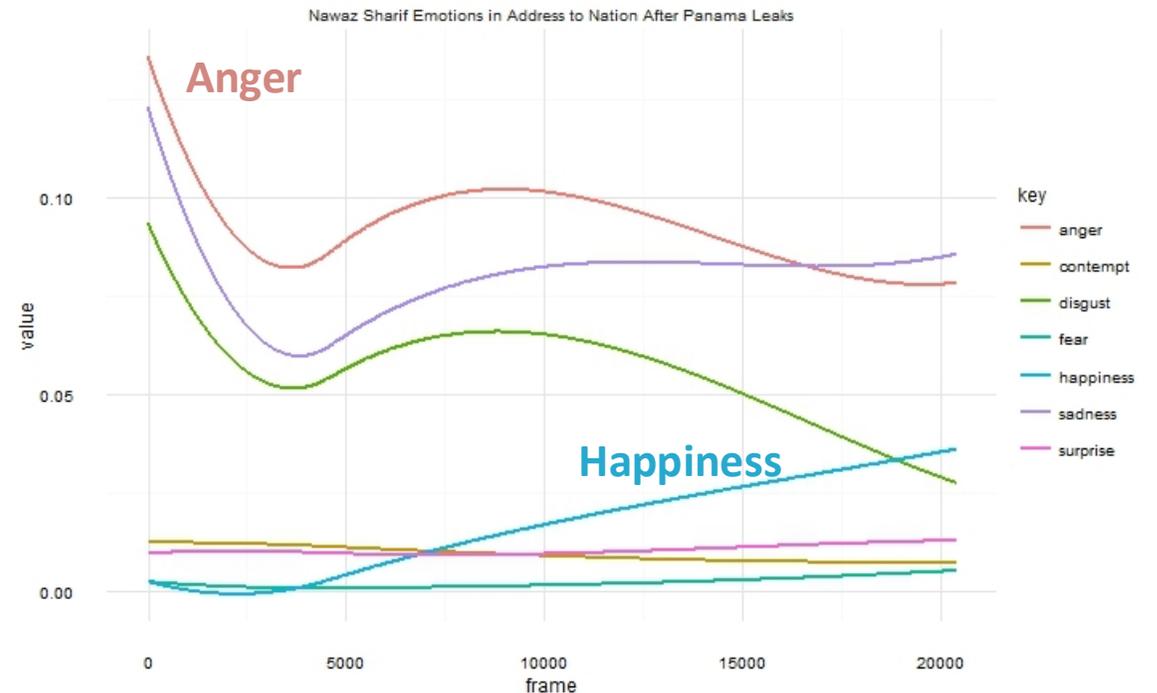
Example: Emotion Recognition

Applying Neural networking to understand emotion in video

Applying Face Emotion Recognition API Technology to Video of Nawaz Sharif's Address to Nation after Panama Paper



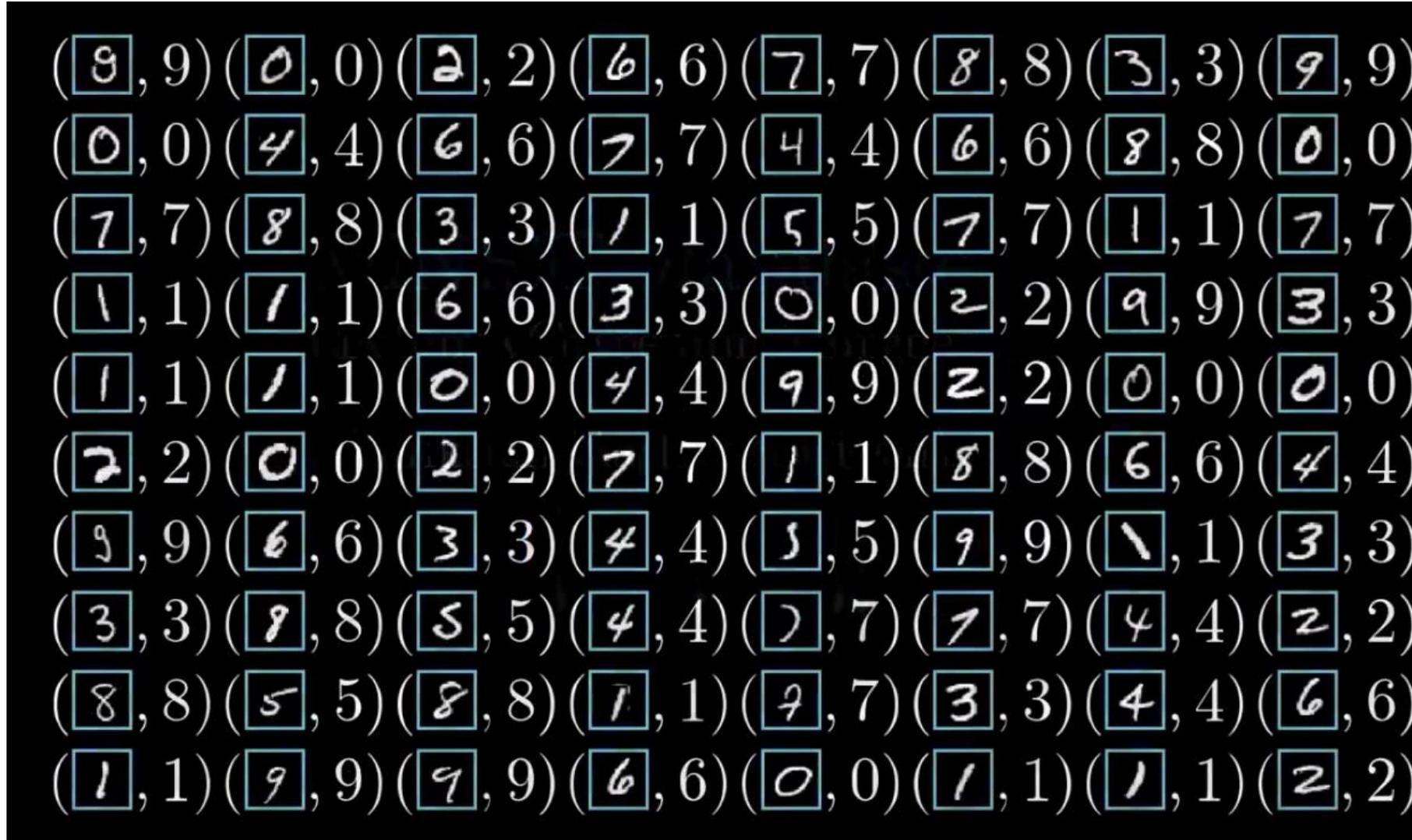
Former Pakistan Prime Minister



The [Microsoft Emotion API](#) is based on state of the art research from Microsoft Research in computer vision and is based on a Deep Convolutional Neural Network model trained to classify the facial expressions of people in videos and images.

Utilizing Neural Networking

Getting quality results for your business question with reasonable cost spend



Where To Get Data

There are opportunities to mine data from open sources

If You Needed Facial images with Age Progression

- Train:** How will people look when they are older?
- Needed:** Lots of people-at 10 years apart (any 10 year set of age)
- Funding Source:** Age-specific Ad targeting

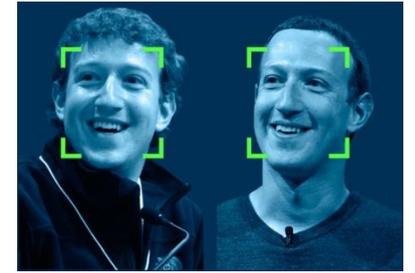
 January 12 at 8:27 PM · 
2019 / 2009



Facial recognition is an increasingly popular tool for law enforcement to track down criminals, however it has also been used in the search for missing people. (Getty)

INDIAN POLICE TRACE 3,000 MISSING CHILDREN IN JUST FOUR DAYS USING FACIAL RECOGNITION TECHNOLOGY

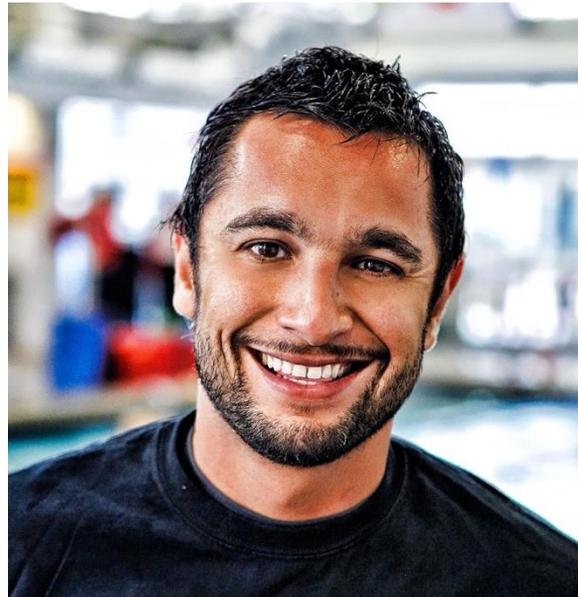
The technology helped identify thousands of missing children within just four days of launching



Where To Get Data

There are opportunities to mine data from open sources

Results from age progression code

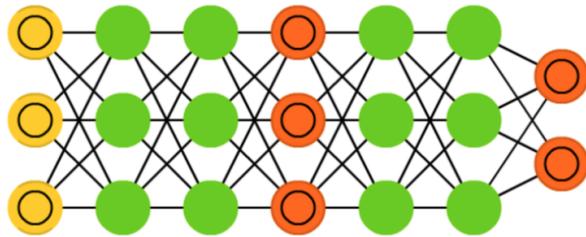


Neural Network Types

Summary Chart

<https://towardsdatascience.com/the-mostly-complete-chart-of-neural-networks-explained-3fb6f2367464>

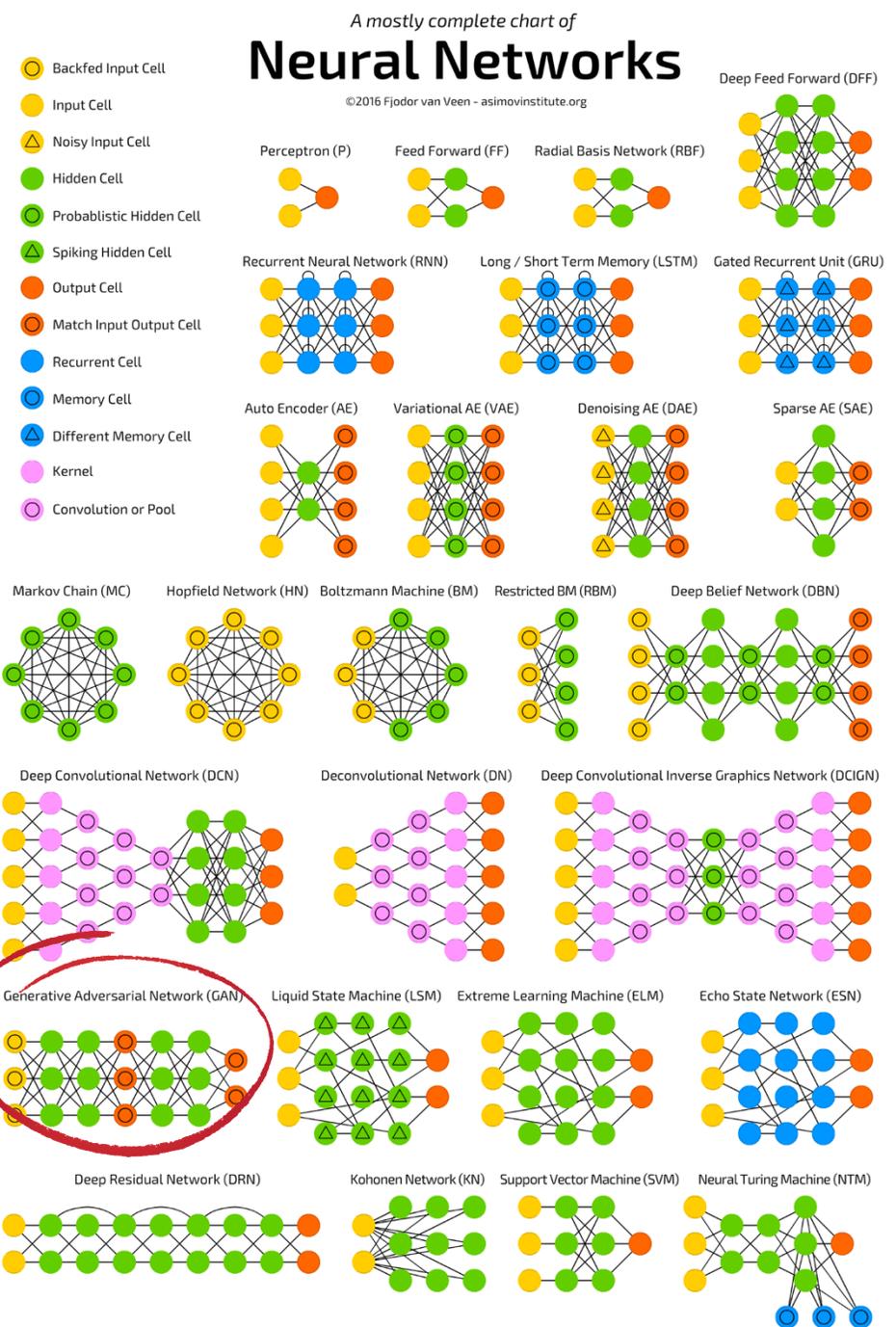
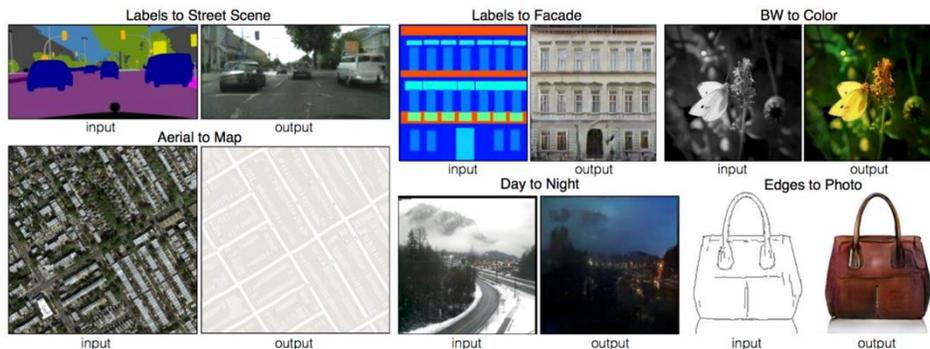
Generative Adversarial Network (GAN)



GAN represents a huge family of double networks, that are composed from generator and discriminator. They constantly try to fool each other — generator tries to generate some data, and discriminator, receiving sample data, tries to tell generated data from

samples. Constantly evolving, this type of neural networks can generate real-life images, in case you are able to maintain the training balance between these two networks.

pix2pix is an excellent example of such approach.



AI Impact on You

Dramatic technology changes & its effect on global markets/business

Disclaimer

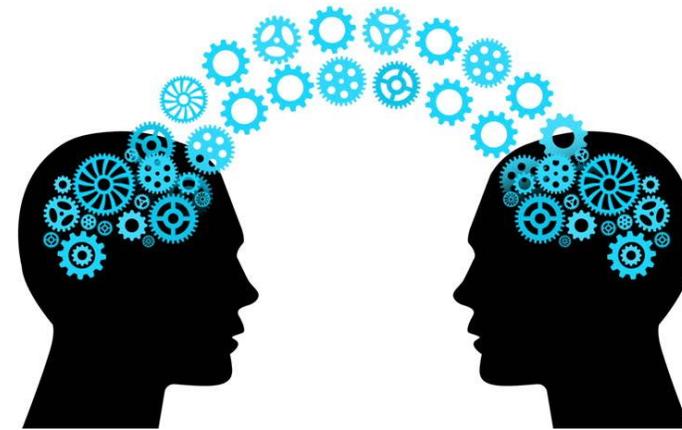
This presentation is for informational and educational purposes only. I am not a financial advisor, and nothing in this presentation presented either visually or verbally should be considered financial advice. The content shared reflects my open interpretations, strategies and market observations. Always do your own research and consulting with a licensed financial professional before making any investment decisions. Trading involves risk, and past performance is not indicative of future results.

AI and Market Impacts

Taking newly-gained AI knowledge and using it to your advantage

- **What we can do to help SILL Members with this information**

- **My parents**
 - **Ask: What is AI?**
 - **Check retirement portfolio every day**



What is Happening in The Marketplace

Current conditions

- Race to create the best algorithms
- Build at all costs now
- Winner takes all
 - Lesson from Internet boom.
- Compute now, pay later
 - Invest money to build/use data centers
 - Massive data center capacity expansion
 - Massive telecom fiber optic cable expansion in the internet boom (90's)
 - WorldCom/MCI bankruptcy 2002
 - Years of “dark fiber”



The Market Players

What organizations are accelerating the AI market and its effect on industries

ANTHROPIC
☀️ Claude



 **OpenAI**
 ChatGPT

Google
✦ Gemini

amazon

 **Microsoft**


Meta


NVIDIA

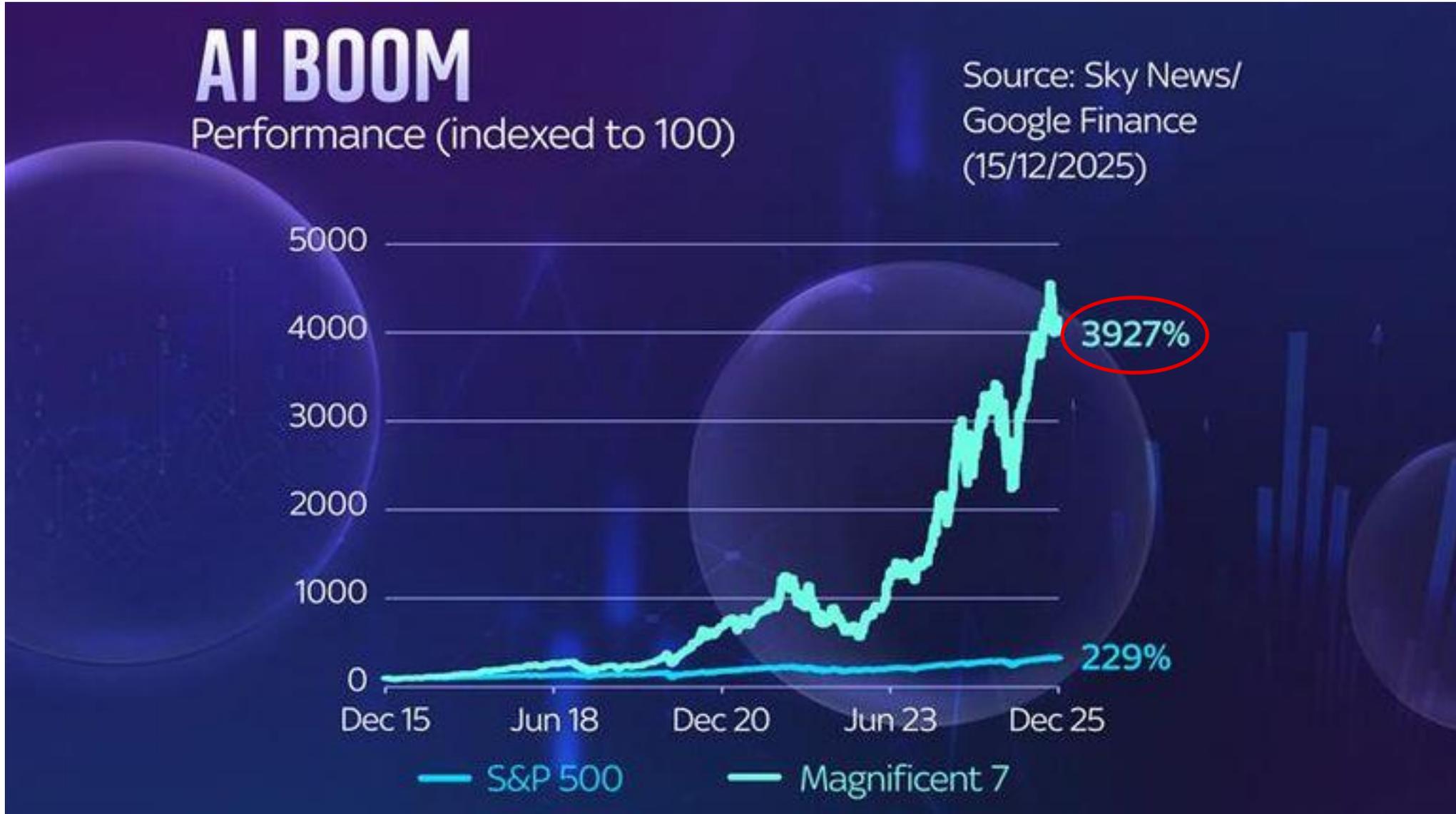
ORACLE
CLOUD
Infrastructure


NVIDIA



AI Focused Firms Have Outperformed The Market

Significant returns from seven firms have skewed market results for the S&P 500



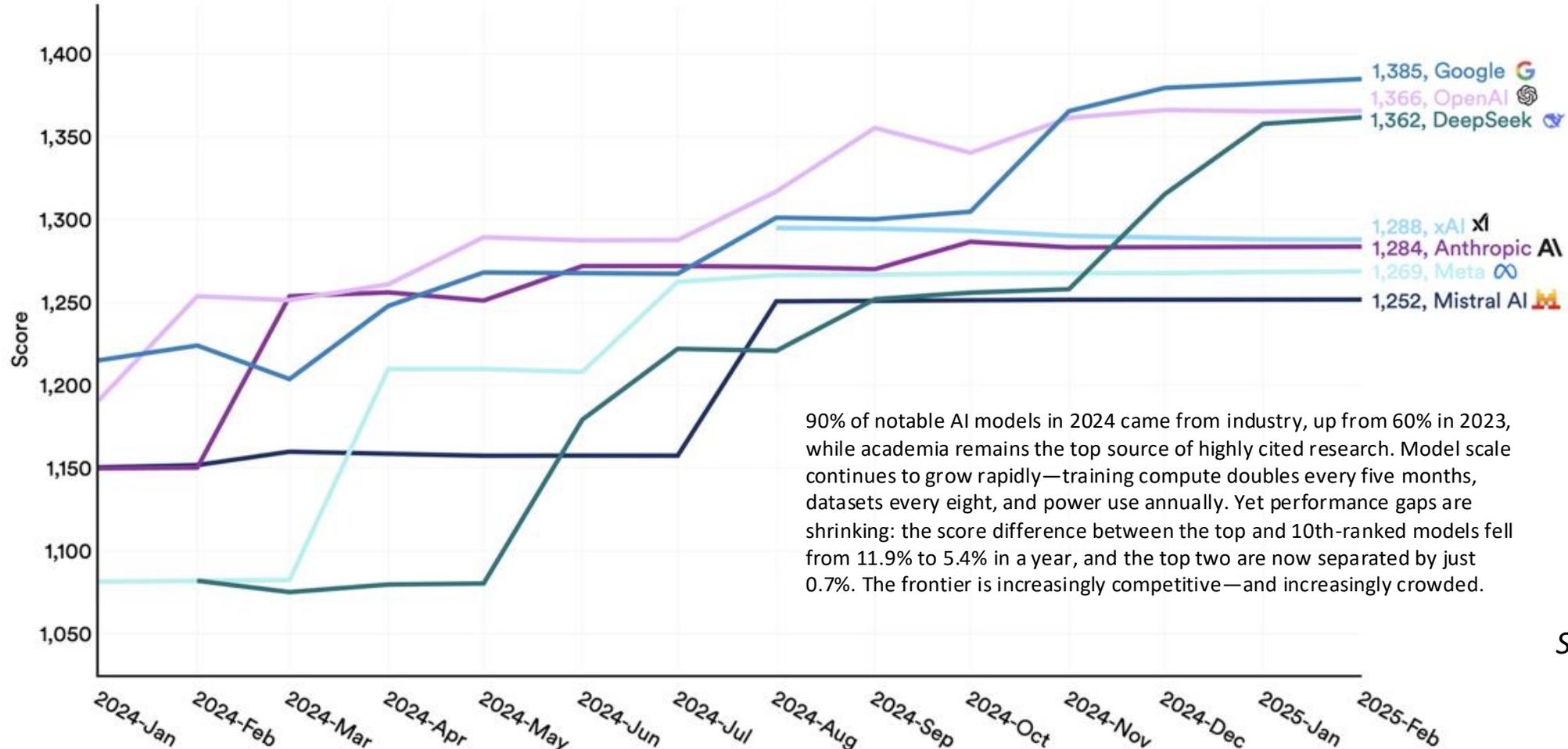
AI Performance Gap is Shrinking

Key player advantages are becoming less pronounced

Industry is racing ahead in AI
—but the differences are less pronounced.

Performance of top models on LMSYS Chatbot Arena by select providers

Source: LMSYS, 2025 | Chart: 2025 AI Index report

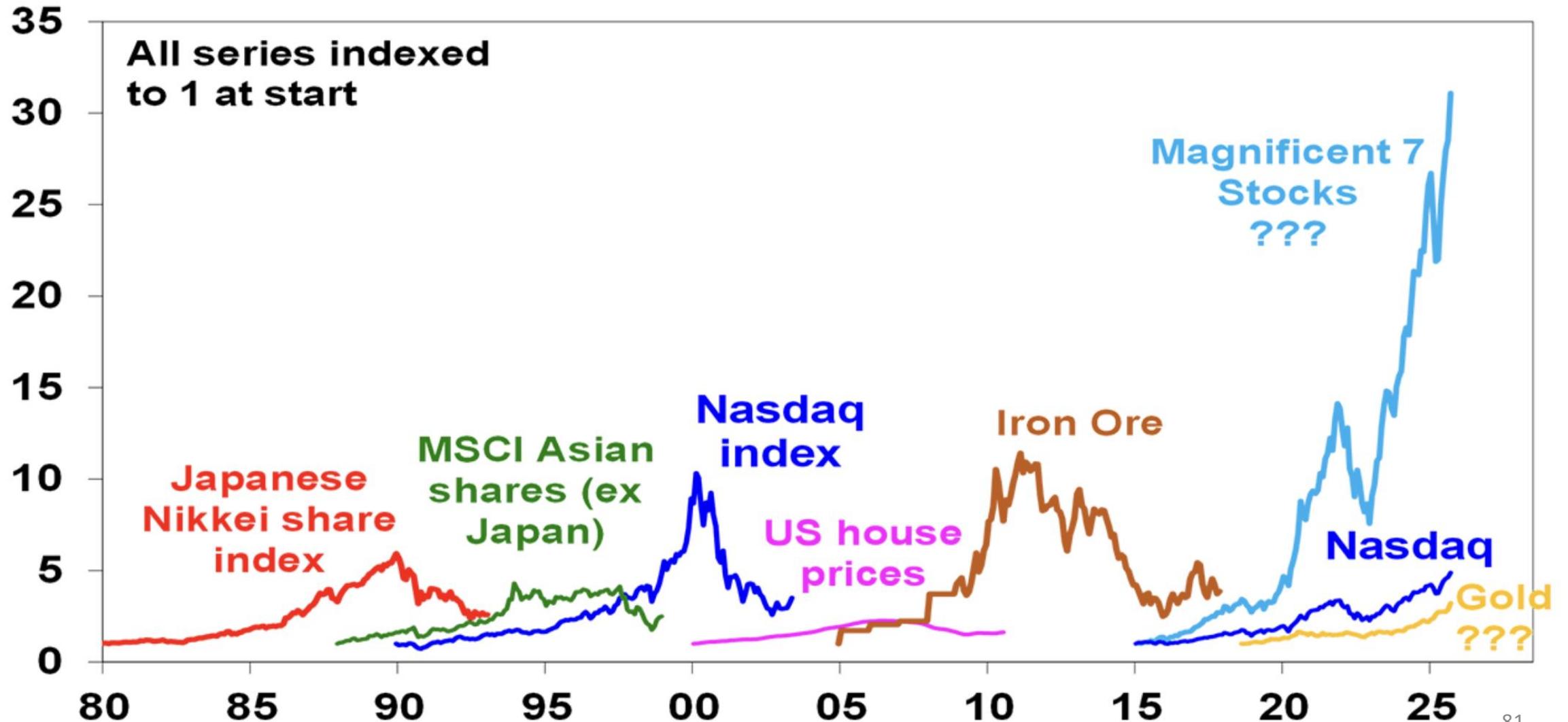


90% of notable AI models in 2024 came from industry, up from 60% in 2023, while academia remains the top source of highly cited research. Model scale continues to grow rapidly—training compute doubles every five months, datasets every eight, and power use annually. Yet performance gaps are shrinking: the score difference between the top and 10th-ranked models fell from 11.9% to 5.4% in a year, and the top two are now separated by just 0.7%. The frontier is increasingly competitive—and increasingly crowded.

Stanford AI Center

Possible Global Asset Bubbles since 1980

Historical perspective on asset valuations over time



Price/Earnings Ratios

Comparison to market capitalization and market share

	Market cap (billion US dollars)	Market share (%)	P/E ratio	12-month forward P/E ratio	
	Nvidia	4397	7.0	58	35
	Microsoft	3904	6.2	39	34
	Apple	3234	5.2	30	28
	Amazon	2341	3.7	34	31
	Alphabet	2395	3.8	21	19
	Meta	1934	3.1	28	28
	Broadcom	1419	2.3	113	39
	Tesla	1044	1.7	187	159
	Oracle	705	1.1	58	36
September 2025	Palantir	419	0.7	646	253

March 9, 2026, P/E is 221

S&P 500 Tracking Funds

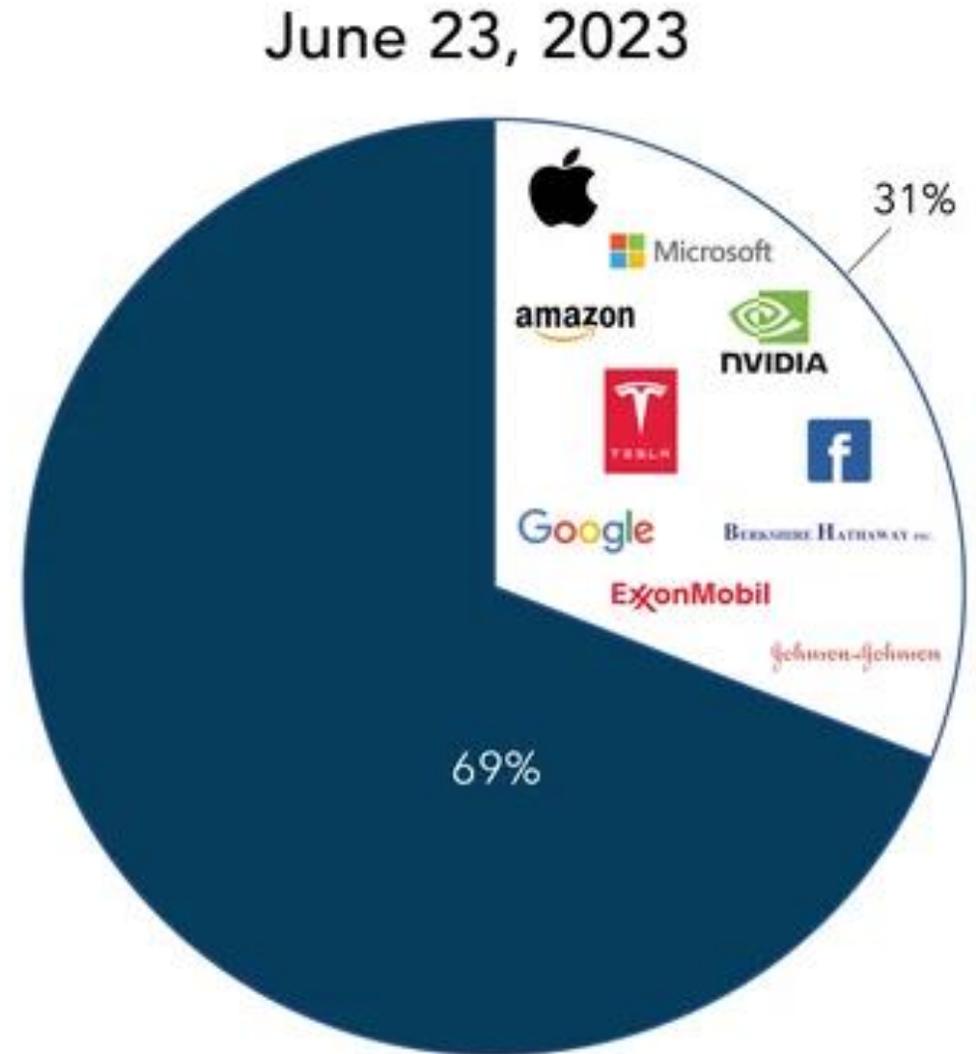
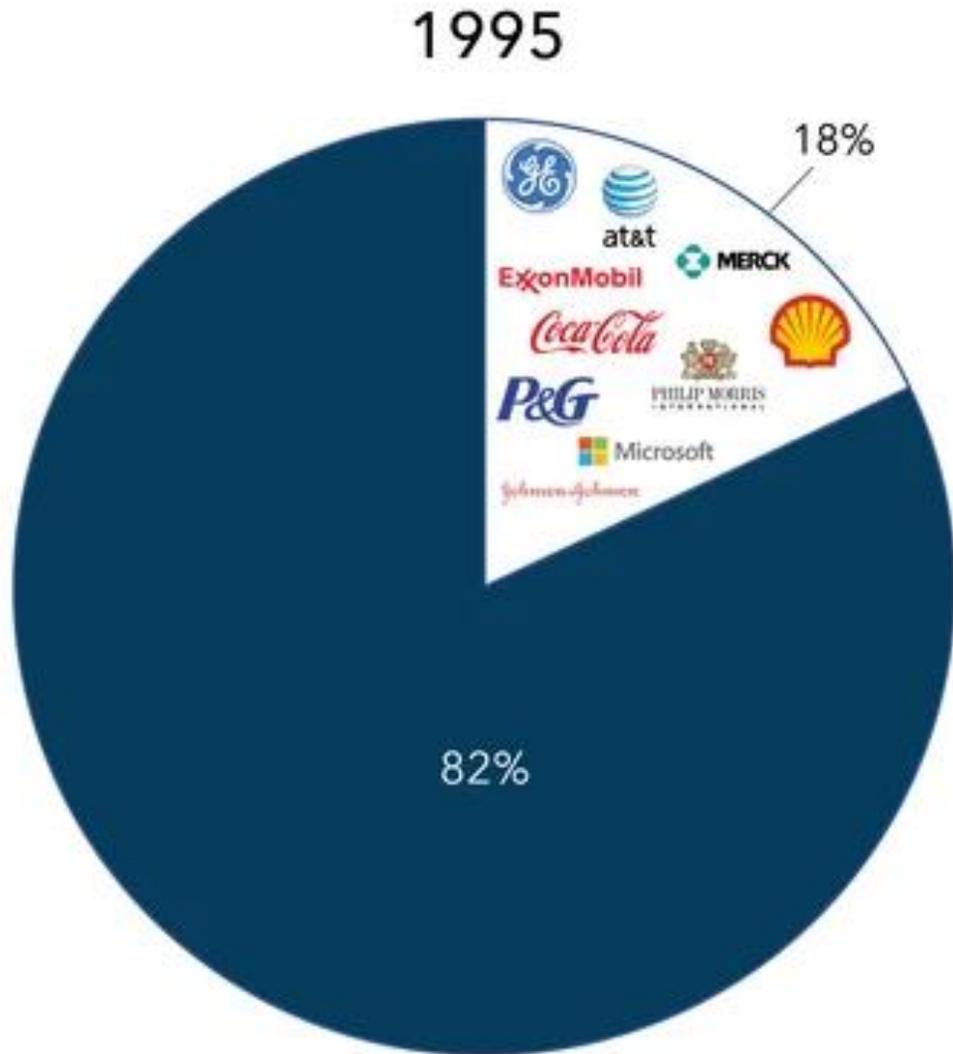
Largest tracking funds commonly invested in

Provider	Symbol	Fee	10-year average return
Fidelity INVESTMENTS	FXAIX	0.015%	13.34%
<i>charles</i> SCHWAB	SWPPX	0.02%	13.30%
Vanguard	VFIAX	0.04%	13.31%
STATE STREET GLOBAL ADVISORS	SPLG	0.02%	13.29%
Vanguard	VOO	0.03%	13.31%
iShares [®] by BLACKROCK [®]	IVV	0.03%	13.31%

As of early 2024, approximately **65%** of assets in U.S. large-cap equity funds (which are primarily measured against the S&P 500) are in **passive tracking funds**

S&P 500 Large Capitalization Percentage

Technology firms have taken a significant percentage of total S&P 500 valuation



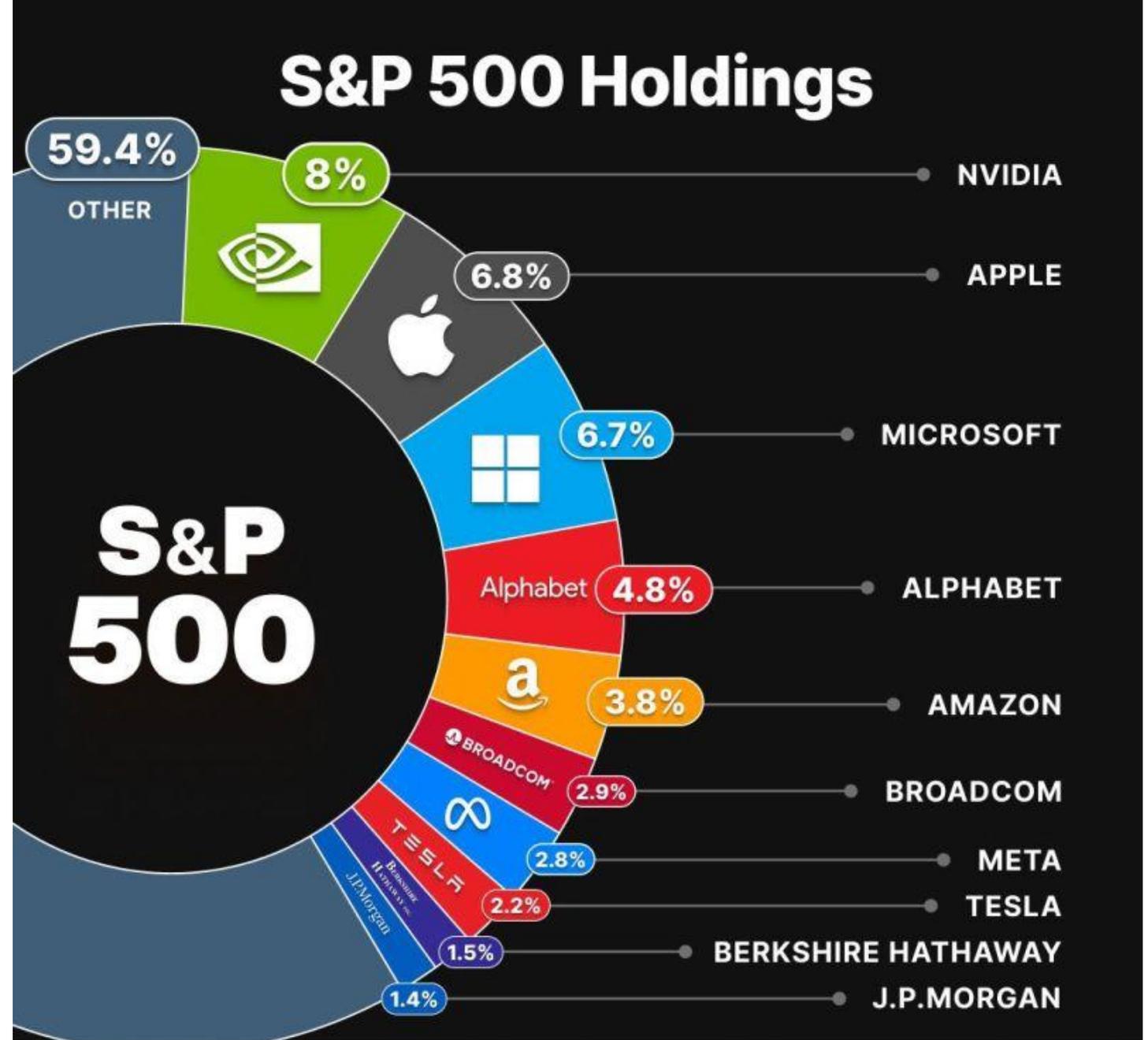
Tech Influence

Tech weighting on the S&P 500

- 40% tech weighted
- 60% everything else

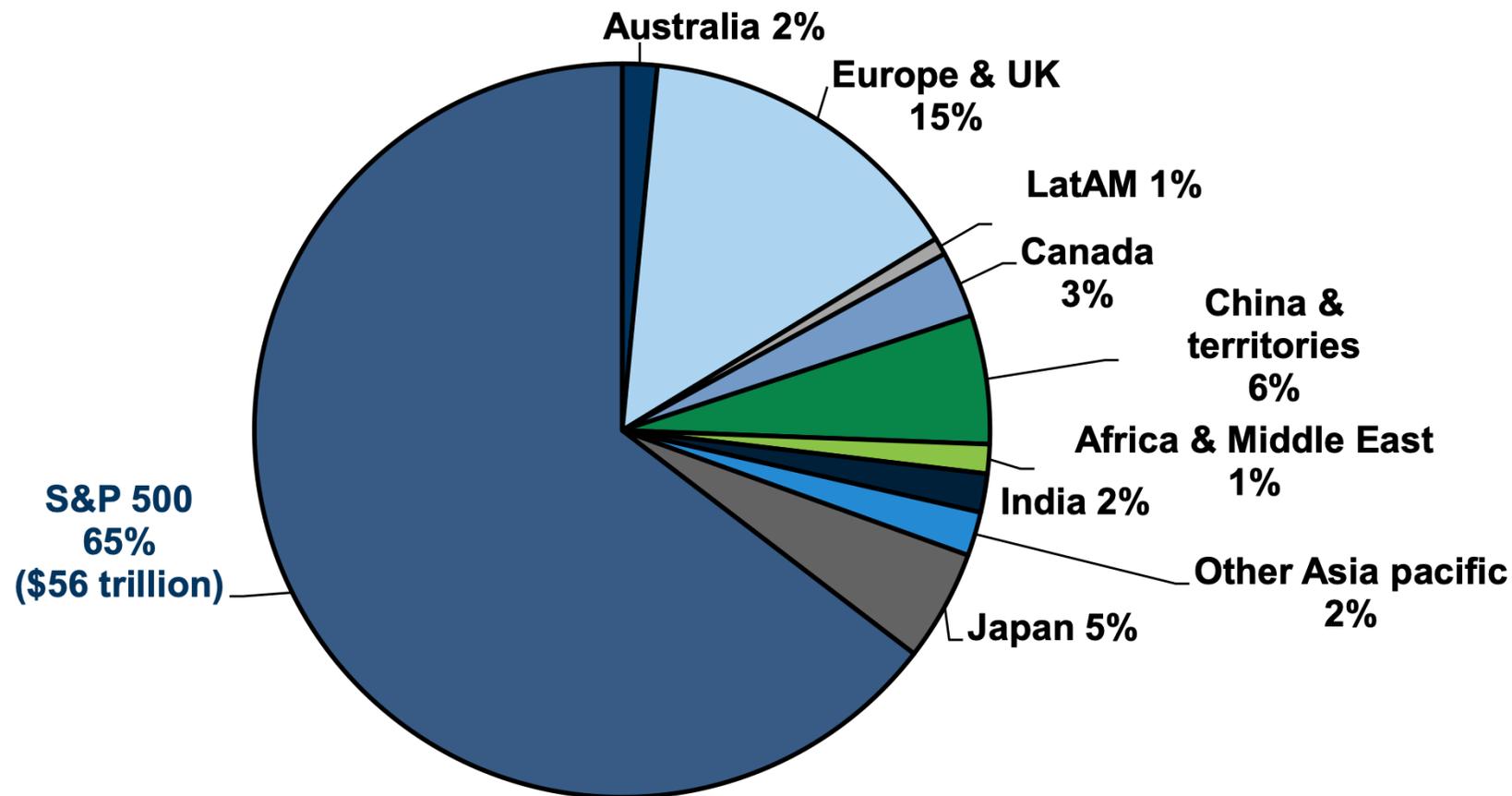
Note:

Berkshire has significant holdings in tech firms



US Market

The US market dominates global equities

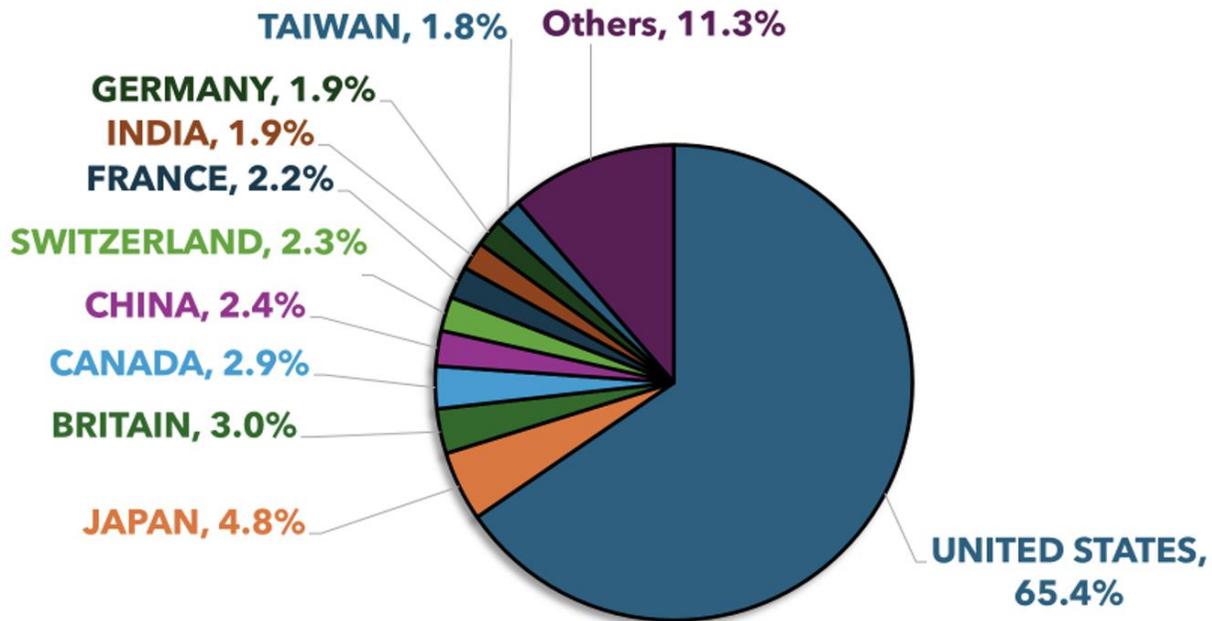


As of September 2025

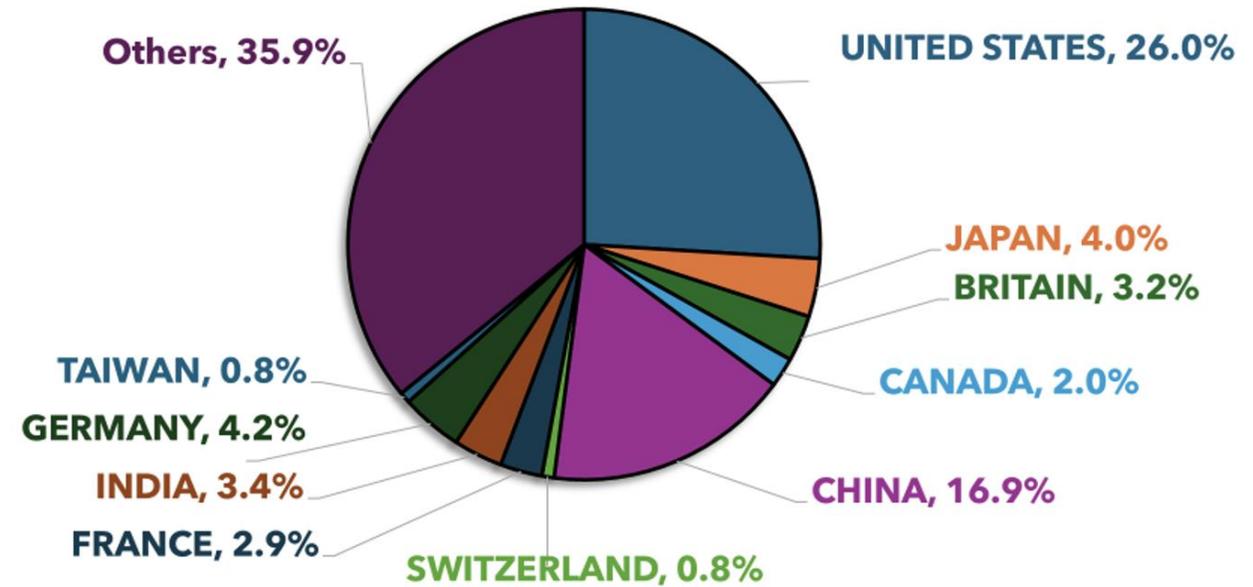
US Market

The US market is outsized compared to its GDP on a global basis

Market Cap Weighting



GDP Weighting



AI In Stock Trading

How Artificial Intelligence is being used in the financial services sector for automated trading



What is AI Trading

- Uses machine learning, NLP (*natural language processing*) & big data for stock trading
- Analyzes vast data sets to make informed decisions
 - Potentially outperforming traditional trading methods



How Does It Work?

- Machine learning: Trains algorithm on large datasets to identify patterns
- Natural language processing (NLP): analyzes news, social media sentiment
- Big data analytics: Examines large datasets for hidden insights



AI Trading Benefits

- Improved risk management & strategy development
- Real-time analytics for better decision-making
- Potential for superior market trend prediction

The Everything Bubble

The concept of all major asset classes simultaneously overvalued to historic levels

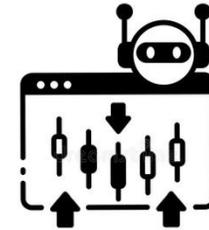
- Stocks
- Bonds
- Real estate
- Cryptocurrencies



Intelligence Paradox (Investing)

The AI-Driven Inefficiency hypothesis

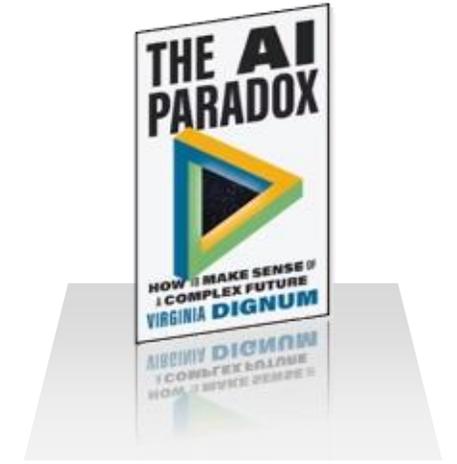
- Homogenization of Investment Strategy (“AI Groupthink”)
- Amplified Volatility & Flash Crashes
- The AI “Black Box” Concern
- Overfitting to Past Data
- Disconnect from actual firm fundamentals (mispriced)



Robot Trading



Dogecoin

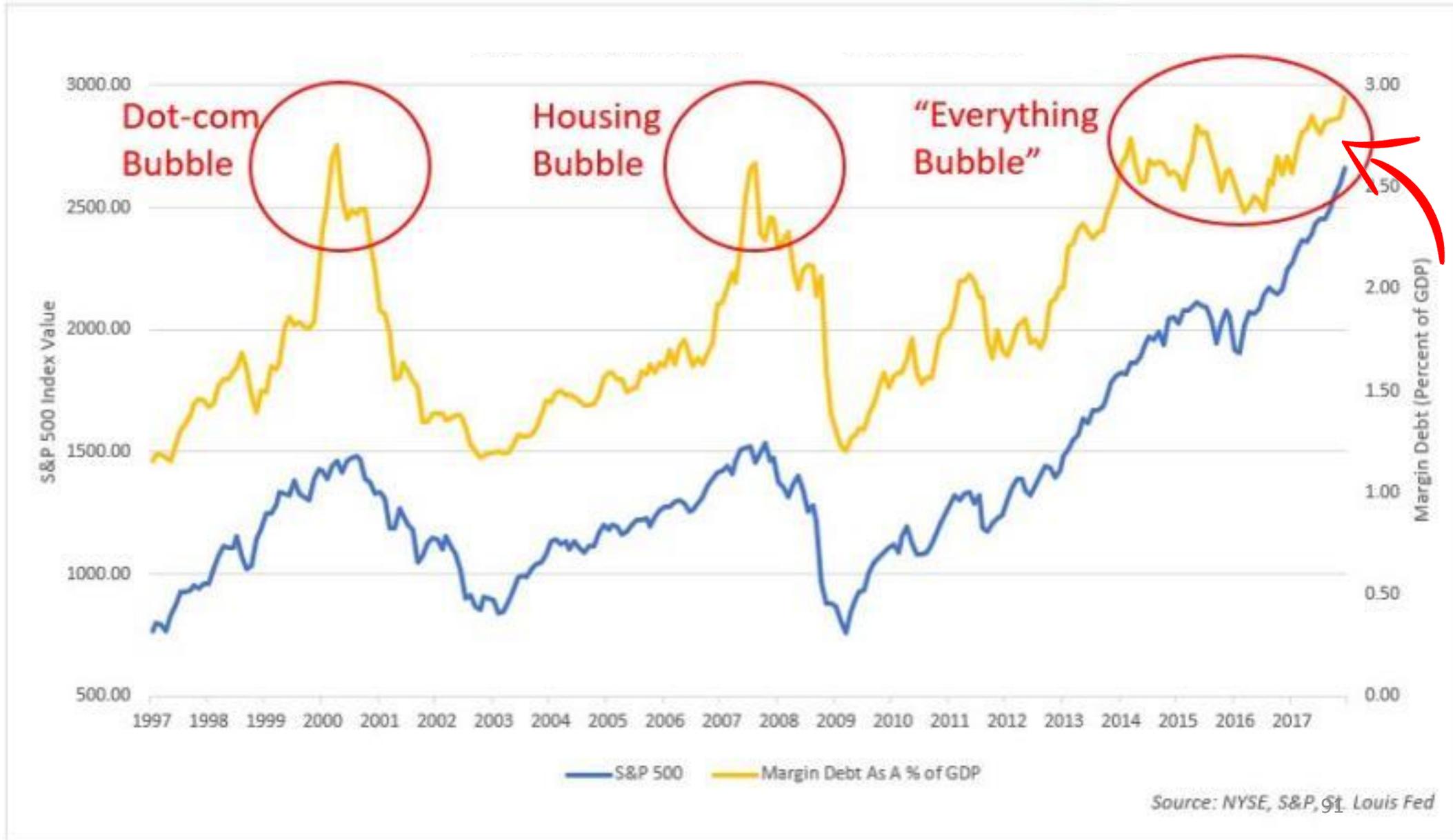


Virginia Dignum
AI Researcher

The theory that AI investing makes financial markets inefficient—often termed the "intelligence paradox" or "AI-driven inefficiency" hypothesis—suggests that while artificial intelligence can analyze data faster than humans, its widespread adoption leads to homogenized strategies, herd behavior, and increased volatility, ultimately destabilizing the market. Instead of creating a perfectly efficient market, the reliance on similar, opaque AI models can create artificial, "fragile" environments prone to flash crashes

S&P500 vs. NYSE Margin Debt As A % of GDP

Bubbles



Global Debt Concern

Highest in history

- Excess capital hangover from pandemic monetary injections
- Artificially low interest rates for an extended period prior to the pandemic
 - Easy credit
- AI “land grab”
 - Mind share
 - Market share
 - At any cost (debt)
 - Pay now, win (market leader) later



The Everything Bubble

A possible looming systemic crisis of speculation, stagflation, and debt

Three interlocking forces:

1. Massive tech (AI & crypto) investments and capital flows

- Reminiscent of the 1999

2. Sticky inflation with slowing growth

- Reminiscent of the 1970's

3. A debt overhang rivaling 2008

- Sovereign debt
- Corporate debt
- Household debt



Open Discussion

An invitation to discuss and share my interpretation of market impacts

Thank you

Your engagement and participation has been greatly appreciated

John Blevins

J.B@NavigationPointe.com

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Session Guide

Facilitating our offsite growth plan discussion

Session Guide

Management Consultant & Professor



- Corporate Strategy
- Strategic Planning
- Technology Program Development
- Organizational Management
- Venture Capital Investment
- Emerging Technologies
- New Market Development
- Partnership Alliances
- Corporate Communications

- Marketing Analytics
- ERP Systems/Software
- Cloud Computing
- Big Data Analytics
- Social Media
- Mobile
- Machine Learning
- Artificial Intelligence
- Metaverse/AR/VR/XR



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Teaching



Cornell Tech
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UC Berkeley
Teaching



UCLA Extension
Advisory



Deloitte Consulting
Consulting



Microsoft
Strategy



Oracle
Consulting



Shell Oil Company
Sales