Artificial Intelligence

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Intro

Defined as the simulation of human intelligence processes by machines. AI programming focuses on three cognitive skills: **Learning**, where data's acquired and creates rules for how to turn the data into useful information; **Reasoning**, where it focuses on choosing the right algorithm to hold out the desired outcome; **Self-correction**, fine-tune the algorithms and ensure they provide the most accurate results possible.

Types of AI

The emergence of artificial superintelligence will change humanity, but it's not happening soon. Here are the types of AI leading up that new reality.

Reactive AI

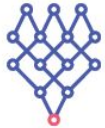
- Good for simple classification and pattern recognition tasks
- Great for scenarios where all parameters are known; can beat humans because it can make calculations much faster
- Incapable of dealing with scenarios including imperfect information or requiring historical understanding

Limited memory

- Can handle complex classification tasks
- Able to use historical data to make predictions
- Capable of complex tasks such as self-driving cars, but still vulnerable to outliers or adversarial examples
- This is the current state of AI, and some say we have hit a wall

Theory of mind

- Able to understand human motives and reasoning. Can deliver personal experience to everyone based on their motives and needs.
- Able to learn with fewer examples because it understands motive and intent
- Considered the next milestone for AI's evolution



Self-aware

- Human-level intelligence that can bypass our intelligence, too

John Mccarthy

Creator of the term "artificial intelligence" and was a towering figure in computer science at Stanford most of his professional life. He developed the programming language LISP, the second oldest programming language after FORTRAN.

Andrew Ng

Undoubtedly one of the most prominent AI researchers, instructors, and practitioners in the field today. Co-founder of the online learning platform Coursera where he has taught over 4.5 million students. Founder of DeepLearning.ai, which is an education technology company that is helping develop a global community of AI talent.

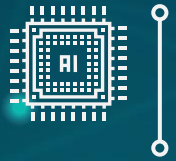
Elon Musk

his non-profit organisation, is on creating safe artificial general intelligence (AGI) in a manner that enhances humanity, despite the possible risks of AI. Part of his plans is a neural implant that connects the human brain to artificial intelligence's, allowing people to operate computers, artificial limbs, and other equipment with their thoughts alone.

Demis Hassabis

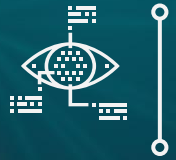
Founder and CEO of DeepMind, an AI research company most well known for creating the first AI system to defeat a professional human Go player: AlphaGo.

Companies in its development

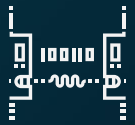


Amazon Web Services

Google Cloud

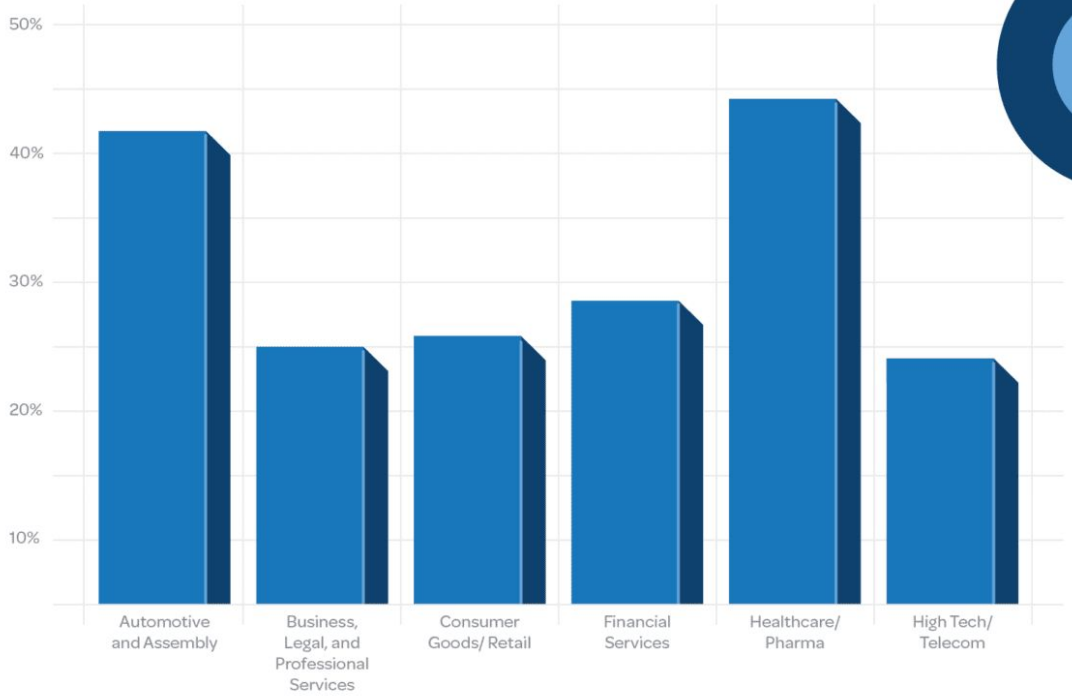


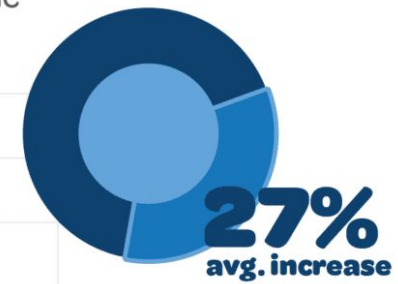
Nvidia



Brighterion

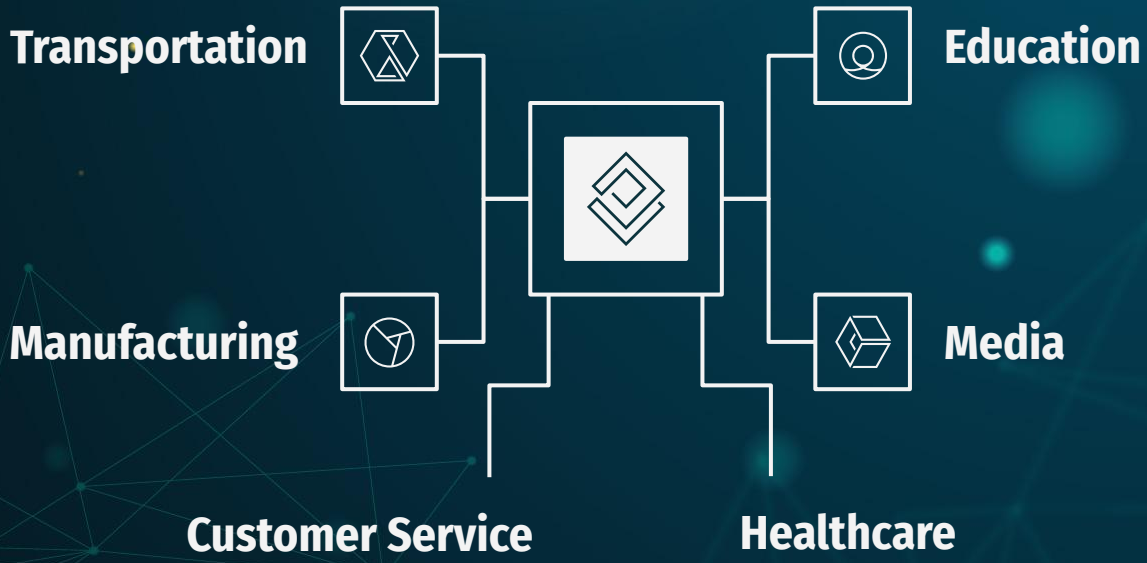
Increases in AI Investment During 2020 and the COVID-19 Pandemic

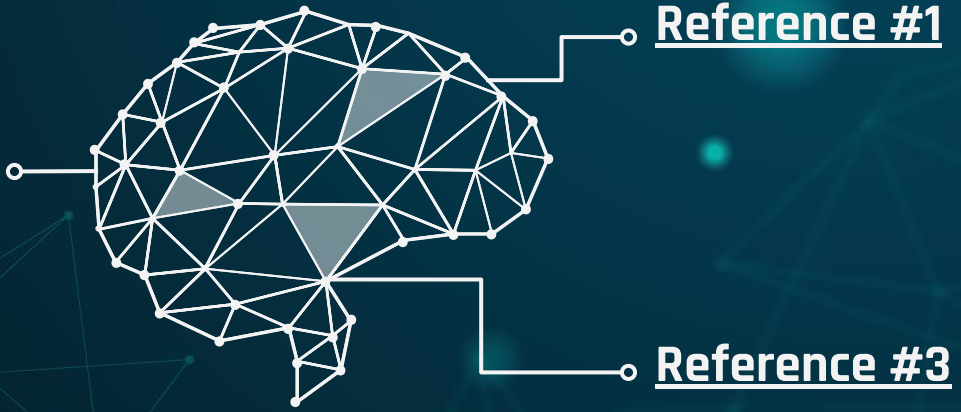




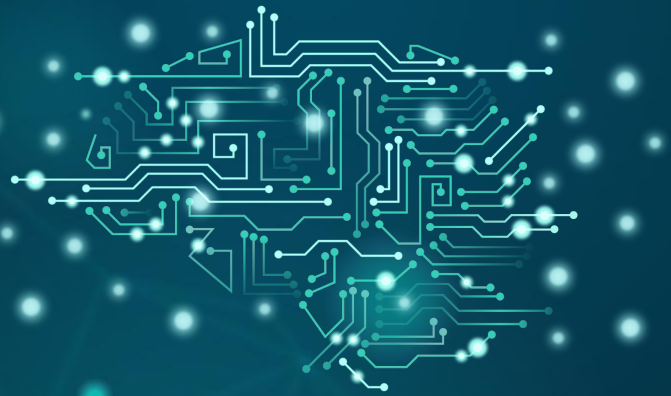
Source: McKinsey & Company, 2020

The future of AI




Reference #1
Reference #2
Reference #3

That's something that even if you are the best PLC programmer in the world,
you can never reprogram your machine in a few seconds. Just like that.



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