

A.I. TECH

Artificial intelligence

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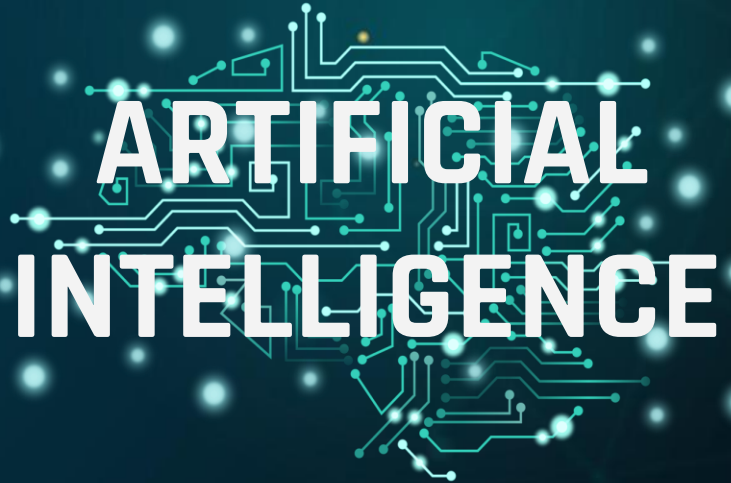
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WHAT IT IS AND WHY IT MATTERS?

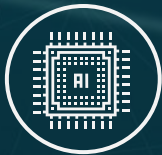
Artificial intelligence (A.I.) is a wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence.



A BRIEF HISTORY OF ARTIFICIAL INTELLIGENCE

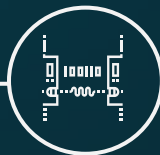
The term artificial intelligence was coined in 1956, but A.I. has become more popular today thanks to increased data volumes, advanced algorithms, and improvements in computing power and storage.

Early A.I. research in the 1950s explored topics like problem solving and symbolic methods. In the 1960s, the US Department of Defense took interest in this type of work and began training computers to mimic basic human reasoning. For example, the Defense Advanced Research Projects Agency (DARPA) completed street mapping projects in the 1970s. And DARPA produced intelligent personal assistants in 2003, long before Siri, Alexa or Cortana were household names.



1950-1970

Early work with neural networks stirs excitement for “thinking machines”



1980-2010

Machine learning becomes popular



PRESENT DAY

Deep learning breakthroughs drive A.I. boom

WHY IS ARTIFICIAL INTELLIGENCE IMPORTANT?

01

A.I. automates repetitive learning and discovery through data

02

A.I. adds intelligence

03

A.I. adapts through progressive learning algorithms

04

A.I. analyzes more and deeper data

05

A.I. achieves incredible accuracy

06

A.I. gets the most out of data

HOW ARTIFICIAL INTELLIGENCE WORK?

A.I. works by combining large amounts of data with fast, iterative processing and intelligent algorithms, allowing the software to learn automatically from patterns or features in the data. A.I. is a broad field of study that includes many theories, methods and technologies, as well as the following major subfields:



The goal of A.I. Is to provide software that can reason on input and explain on output. A.I. will provide human-like interactions with software and offer decision support for specific tasks, but it's not a replacement for humans – and won't be anytime soon



HOW ARTIFICIAL INTELLIGENCE IS BEING USED?

A.I. applications can provide personalized medicine and X-ray readings



HEALTH CARE

A.I. can analyze factory IoT data as it streams from connected equipment to forecast expected load



MANUFACTURING

A.I. technologies can unleash the full potential of data to solve some of our greatest health challenges



LIFE SCIENCES

Stock management and site layout technologies will also be improved with A.I.



RETAIL

In financial institutions, A.I. can adopt fast and accurate credit scoring, automate manually intense data management tasks



BANKING

Artificial Intelligence can make smart cities smarter



PUBLIC SECTOR

WORKING TOGETHER WITH A.I.

Bring analytics to industries and domains where it's currently underutilized

Improve the performance of existing analytic technologies, like computer vision and time series analysis

Break down economic barriers, including language and translation barriers



Augment existing abilities and make us better at what we do

Give us better vision, better understanding, better memory and much more

The principle limitation of A.I. is that it learns from the data

ADVANTAGES AND DISADVANTAGES OF AI

ADVANTAGES

1 Reduction in Human Error

2 Zero Risks

3 24x7 Availability

4 Digital Assistance

5 New Inventions

DISADVANTAGES

1 High Cost

2 No creativity

3 Increase Unemployment

4 Make Humans Lazy

5 No Ethics



THANK YOU!

Any questions?