



ARTIFICIAL INTELLIGENCE

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INTRODUCTION

Intelligence: “The capacity to learn and solve problems.”

Artificial Intelligence: Artificial intelligence (AI) is the simulation of human intelligence by machine.

- The ability to solve problem.
- The ability to act rationally .
- The ability to act like humans .

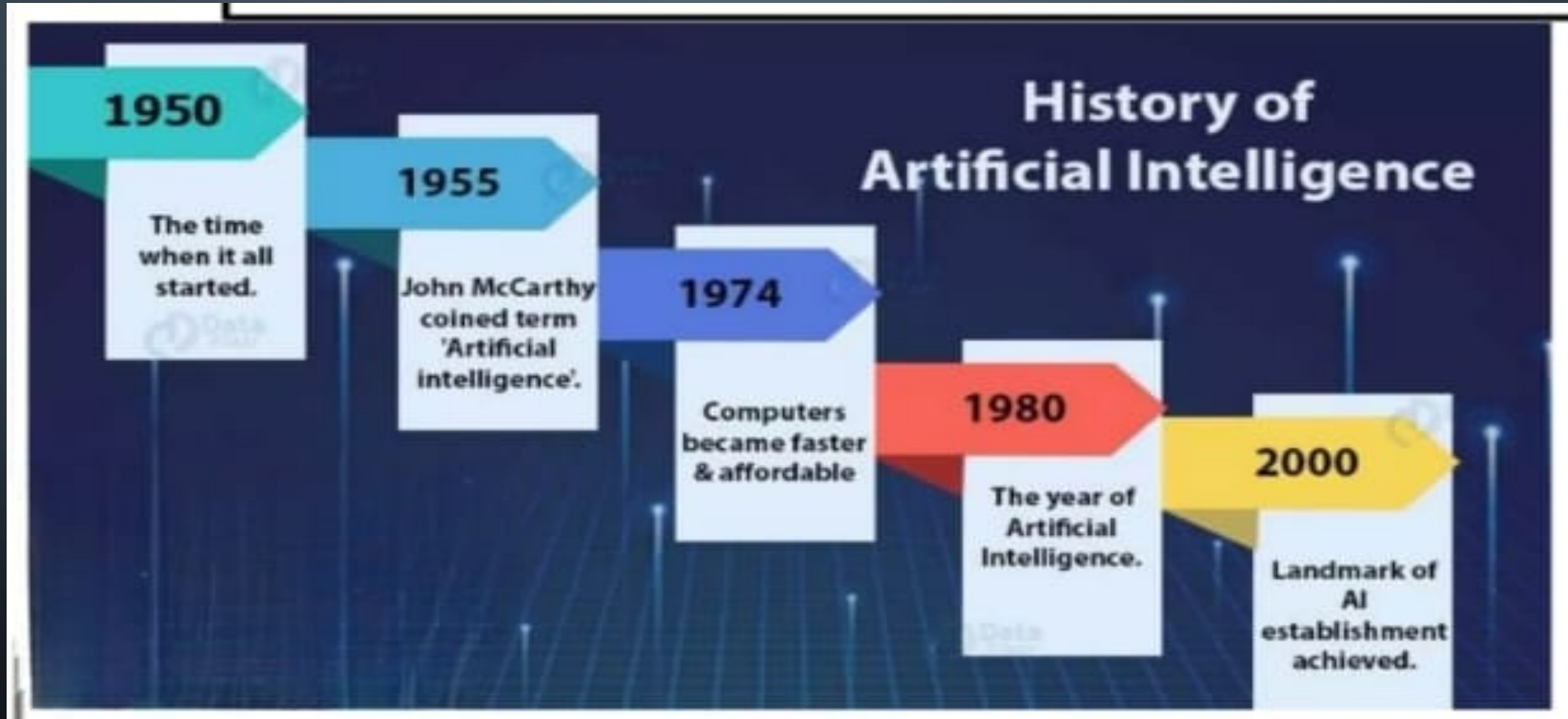
The central principles of AI include :

- Reasoning , knowledge , planning , learning and communication .
- Perception and the ability to move and manipulate objects.
- It is the science and engineering of making intelligent machines, especially intelligent computer programs.

DEFINITION

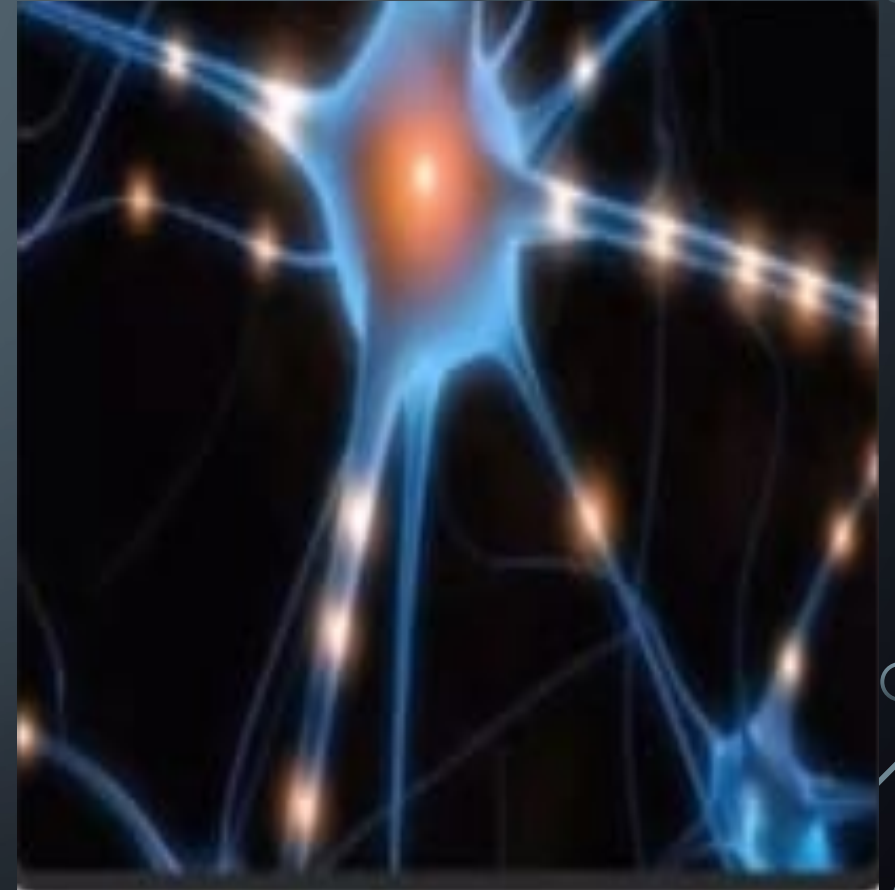
- Computers with the ability to mimic or duplicate the functions of the human brain.
- Artificial Intelligence is the intelligence of machines and the branch of computer science which aims to create it .
- “The branch of computer science that is concerned with the automation of intelligent behaviour” (Luger and Stubblefield. 1993).

HISTORY OF AI



APPLICATION OF AI

- Credit granting
- Information management and retrieval
- AI and expert system embedded in products
- Plant layout
- Help desk and assistance
- Employee performance evaluation
- Shipping
- Marketing
- Warehouse optimization
- In space workstation maintainance
- Satellite control
- Network developments
- Nuclear management



ARTIFICIAL INTELLIGENCE:

Advantages :

- More powerful and more useful computers.
- New and improved interfaces .
- Solving new problems.
- Better handling of information .
- Relieves information overload .
- Conversion of information into knowledge .

Disadvantage :

- Increased costs.
- Difficulty with software development –slow and expensive.
- Few experienced programmers.
- Few practical product have reached the market as yet.

THE EXPLOSIVE GROWTH OF AI

- Since AI is applicable in almost all fields, they become the needs of our life. It is the reason behind the explosive growth of AI .
- The growth can be divided into two parts based on the applicable area and what purpose they serve , they are as follows:
 - Growth in positive sense (useful to society).a
 - Growth in negative sense (harmful to society).

FUTURE OF AI

- Looking at the features and its wide application we may definitely stick to artificial intelligence . Seeing at the development of AI is it that the future world is becoming artificial.
- Biological intelligence is fixed , because it is an old , mature paradigm but the new paradigm of non-biological computation and intelligence is growing exponentially.
- The memory capacity of the human brain is probably of the order of ten thousand million binary digits . But most of this is probably used in remembering visual impressions, and other comparatively wasteful ways.

CONCLUSION

- Till now we have discussed in brief about AI.
- We have discussed some of its principles, its applications ,its achievements etc.
- The ultimate goal of institution and scientists working on AI is to solve majority of the problems or to achieve the tasks which we humans directly can't accomplish.
- It is for sur that development in this field of computer science will change the complete scenario of the world. Now it is the responsibility of creamy layer if engineers to develop this field.

THANK YOU

