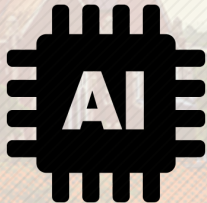


ARTIFICIAL INTELLIGENCE

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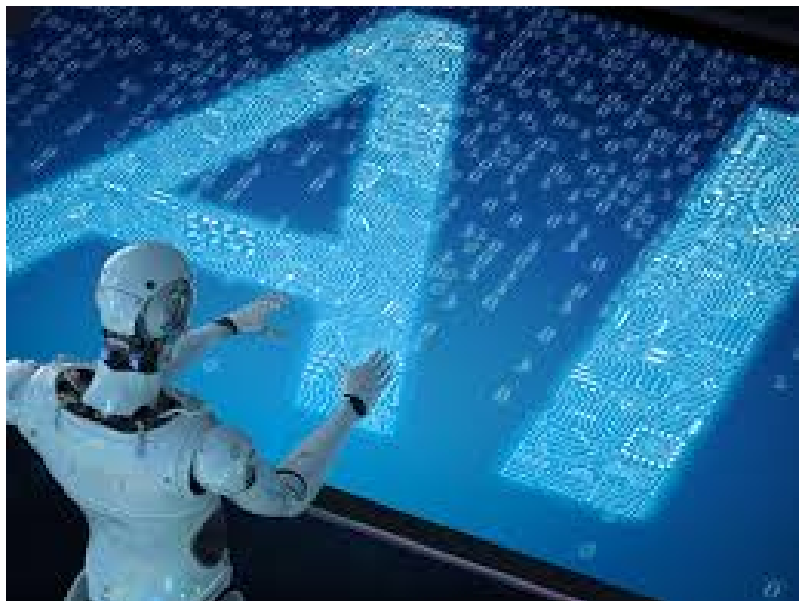
February 28, 2019



Made under Guidance of pranav sir

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Introduction

- ▶ Artificial Intelligence is a branch of Science which deals with helping machines find solutions to complex problems in a more human-like fashion
- ▶ This generally involves borrowing characteristics from human intelligence and applying them as algorithms in a computer-friendly way

History

- ▶ 1941:First Electronic computer (technology finally available)
- ▶ 1956:Term Artificial Intelligence introduced
- ▶ 1960:Checkers-playing program that was able to play games with opponents
- ▶ 1980:Quality Control Systems
- ▶ 2000:First sophisticated walking Robot

Why AI

- ▶ Computers are fundamentally well suited to performing mechanical computations, using fixed programmed rules. This allows artificial machines to perform simple monotonous tasks efficiently and reliably, which humans are ill-suited to.
- ▶ Object recognition. People cannot properly explain how they recognize objects.
- ▶ Face recognition: Cannot be passed to another person by explanation.

Application

- ▶ Expert systems.
- ▶ Natural Language Processing.
- ▶ Speech recognition.
- ▶ Computer vision.
- ▶ Robotics.

Natural Language Processing

The goal of NLP is to enable people and computer to communicate in a natural(humanity) Languages(such as,English) rather than in a computer languages.

The field of NLP is divided in 2 categories

1. Natural Language understanding.
2. Natural Language generation.

Speech Recognition

- ▶ The primary interactive method of communication used by humans is not reading and writing its speech.
- ▶ The goal of speech recognition research is to allow computers to understand human speech. So they can hear our voices and recognize the words we are speaking.
- ▶ It simplifies the process of interactive communication between people and computers, thus it advances the goal of NLP.

Computer Vision

- ▶ People generally use vision as their primary means of sensing their environment, we generally see more than we hear, feel or smell or taste.
- ▶ The goal of computer vision research is to give computers this same powerful facility for understanding their surroundings. Here A.I helps computer to understand what they see through attached cameras.

Advantages

- ▶ They will probably be increasingly used in the field of medicine.
- ▶ A knowledge based expert system, which can cross-reference symptoms and diseases will greatly improve the accuracy of diagnostics.
- ▶ object recognition will also be a great aid to doctors.
- ▶ along with images from cats cans or X-ray machines, the will be able to get preliminary analysis of those images.
- ▶ This of course will be possible only if people solve legal questions that arise by giving power to to control or influence the health of human

Future

The day is not far when you will just sit back in your cozy little beds and just command your personal Robot's to entirely do your ruts. He will be a perfect companion for you. just enjoy the technology.

References

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THANK YOU