ARTIFICIAL INTELLIGENCE: TYPES

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(AIFE: Artificial Intelligence For Engineering)

PREPARED FOR

Engineering Students

All Engineering College

PREPARED BY: **MS. SHWETA TIWARI**
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- In this era of technology, Artificial intelligence has started dominating in all industries and many fields.
- The biggest reason for this is that the machine works more effectively than the human.
- So the day is not far when robots will dominate our world like in any Hollywood movie.
- AI or what we also call machine learning.
- It is divided into two main parts.

ARTIFICIAL INTELLIGENCE: TYPES: FIRST PART

ARTIFICIAL INTELLIGENCE: TYPES- FIRST PART

1. **<u>Weak intelligence (Week AI)</u> –**

- Weak intelligence, also known as narrow AI, is completely focused on the tasks of narrow tasks.
- Weak AI is meant to accomplish a particular problem unlike any Strong AI or General Artificial Intelligence.
- This machine is not very smart in doing its work.
- But they are made to look smart.
- For example, when you play computer mode in Ludo Game, the tokens from one side automatically increase.
- To do this, all the rules and moves are already fed into the software.

ARTIFICIAL INTELLIGENCE: TYPES- FIRST PART

2. Strong AI –

- Strong intelligence which is used to describe a certain mindset of AI development.
- Its goal is to develop artificial intelligence to the point where the intellectual capacity of machines is functionally equivalent to that of humans.
- Strong AI creates machines that can actually think and act like humans.
- Right now there is no proper example of this, but some industries have come very close to building a strong AI.

ARTIFICIAL INTELLIGENCE: TYPES: SECOND PART

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1. **<u>Reactive Machines –</u>**

- This machine is very basic because it does not store memory and cannot even use its past experiences to do any work in the future.
- Reactive machines simply see and react to it.
- IBM's Deep Blue which defeated chess GrandMaster Kasparov is a good example.

ARTIFICIAL INTELLIGENCE: TYPES- SECOND PART

2. Self-Awareness –

- This is such artificial intelligence, which has its own consciousness, self-awareness and super intelligence.
- In simple words, you can also call it a kind of human.
- But this kind of bot is not available yet.
- If this is possible in future, then it will be a big achievement for AI.

ARTIFICIAL INTELLIGENCE: TYPES- SECOND PART

3. Limited Memory –

- These are AI systems that can use past experiences to inform future decisions.
- Some decision making functions are designed in the self-driving car.

ARTIFICIAL INTELLIGENCE: TYPES- SECOND PART

4. Theory of Mind -

- This type of AI machine is made capable of interacting with people's feelings, beliefs, thoughts, expectations and socially.
- Although a lot of experiments have been done in this field, but no such thing has come out so far which can make this possible.