

A decorative graphic on the left side of the slide consisting of a network of thin, light blue lines. These lines form a complex, branching pattern that resembles a circuit board or a neural network. Some lines end in small circles, while others are open. The overall effect is a modern, technological aesthetic.

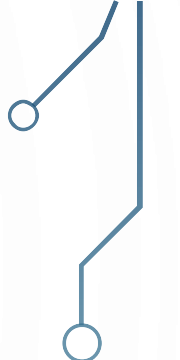
INTRODUCTION TO **ARTIFICIAL INTELLIGENCE** FOR IT & NON-IT PROFESSIONALS

The background features a series of concentric circles in a light gray color, centered on the page. In the four corners, there are stylized circuit board traces in a light blue color, with small circles at the end of the lines, resembling electronic components or data paths.

WEAK AND STRONG AI


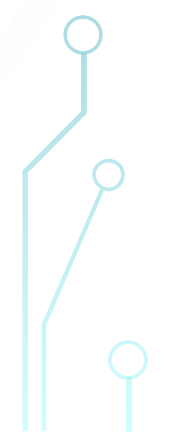


WEAK AI

- Weak artificial intelligence (weak AI), or narrow AI is focused on one narrow task.
 - Example: Data science is
 - Inter-disciplinary field
 - Uses scientific methods, processes, algos, and systems
 - to extract knowledge and insights from structured and unstructured data.
- 


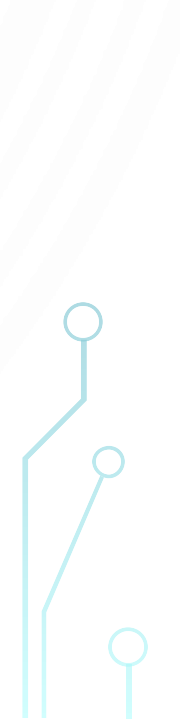


WEAK AI

- Data Science is related to Data Mining and Big data
 - Analyzing, understanding, and making informed decisions on humongous amounts of data, impossible to handle manually (machine learning,
- 
- 


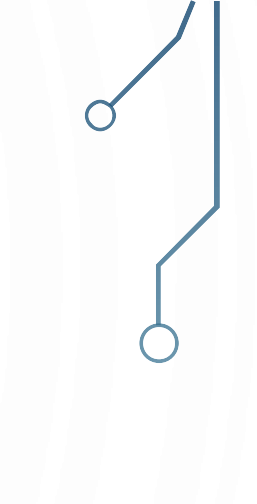
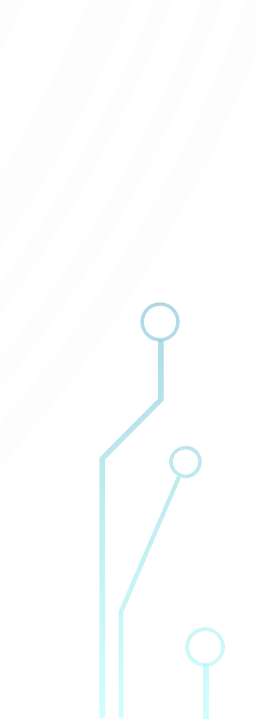


WEAK AI

- Clearly, whether AI is impossible depends on how it is defined.
 - WE have defined AI as the quest for the best agent program on a given architecture. With this understanding AI is possible.
- 
- 



WEAK AI

1. AI was founded on the assumptions that the weak AI is possible.
Other disagree
 2. Can machines act intelligently ?
 3. The question of whether machine can think is about as relevant as the questions of whether submarines can swim
- 
- 
- 

EXAMPLES :WEAK AI

1. Submarines Can Swim ." SWIM?
2. Dictionary meaning is:

**To move through water by means of the limbs, fins, or tail," .
wings or wing like parts (fly)**

1. Thinking machines
2. Computing Machinery and Intelligence

VIRTUAL ASSISTANT (CHATBOTS)


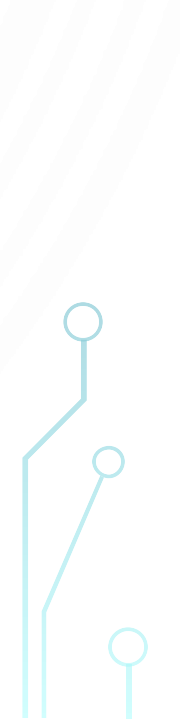
1. ELIZA program
2. Internet chatbots
3. MGONZ
4. NATACHATA
5. CYBERLOVER
6. Siri

STRONG AI :CAN MACHINES THINK ?

- Strong AI is defined as a Machine with the ability to apply intelligence to any problem, rather than just one specific problem, sometimes considered to require consciousness, sentience (feels, perceive, experience subjectively)and mind.
- Ability to think vs. ability to feel

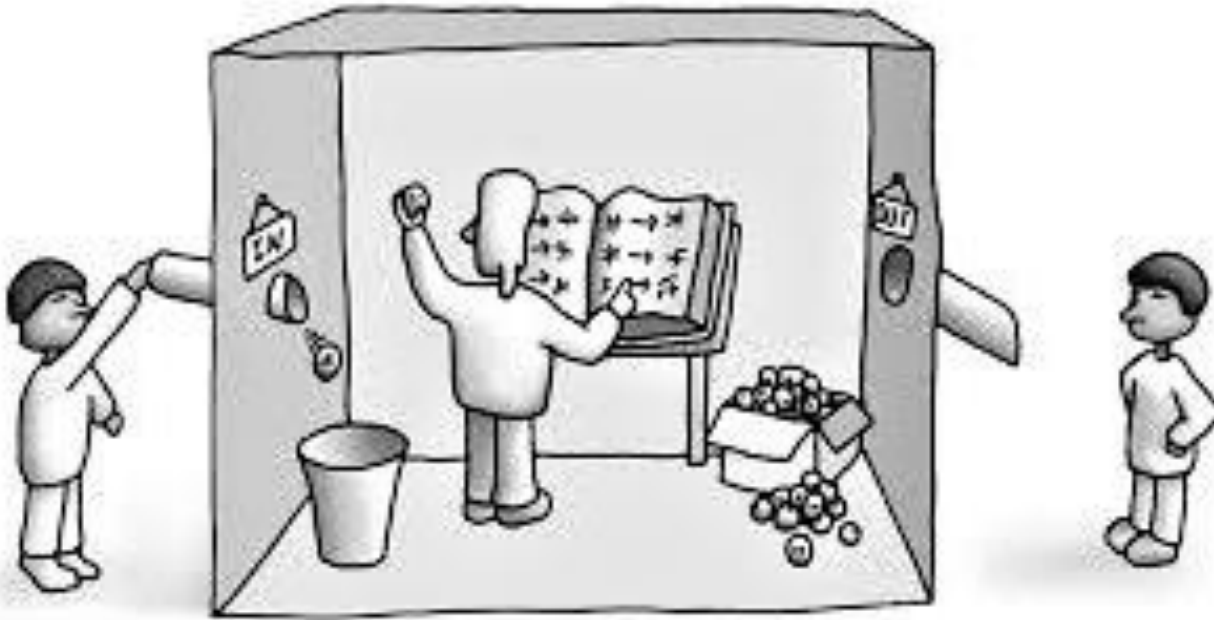


ON TURING AND HIS THOUGHT

- Many philosophers have claimed that a machine that passes the Turing Test would still not be *thinking* but would be only a *simulation* of thinking.
 - Turing calls this **the argument from consciousness—the machine must be aware of its own mental states and actions.**
- 
- 

CHINESE ROOM EXAMPLE

1. It takes Chinese characters as input, produces other Chinese characters as output
2. Person ask questions, it makes appropriate responses so that other person would be convinced that they are talking to another speaking Chinese



WEAK AI VS STRONG AI

- The assertion that machines could act as if they were intelligent is called the weak AI hypothesis by philosophers,
- The assertion that machines that do so WEAK AI are thinking (not just simulating thinking) is called the strong AI hypothesis.
- Most AI researchers take the weak AI hypothesis for granted, and don't care about the strong AI hypothesis—
- If their program works, they don't care whether you call it a simulation of intelligence or real intelligence.