

- Artificial intelligence is an unregulated term.
- No central group to set a standard definition or regulate the usage of the term.

- Second, artificial intelligence isn't a specific thing.
- It's a categorical structure with a lot of different topics underneath it.
- "you'll know it when you see it" type of definition not easily looked up in a dictionary.

- Al is a scientific or technical term.
- As opposed to a field like biology, which does have a particular scientific meaning,
- Artificial intelligence is more of a layman's term.
- Casual reference to a broad collection of ideas, some of which may or may not be technical

- Relatively new science where there is a lot of scope in research and education and application areas.
- As opposed to older disciplines

WHAT IS INTELLIGENCE?

- It is a mental quality consisting of the ability
- 1. to learn from experience (a child learns from experience, hot vs cold, small vs big, attracted by love)
- 2. To solve problems: everyday issues, tyre puncture and get late for office.
- 3. Use knowledge to adapt to new situations.

CHARACTERISTICS OF INTELLIGENCE

- 1. Ability of problem solving
- 2. Ability to think, plan and schedule (timetable) constraint satisfaction
- 3. Memorize, correct and efficient memory and information manipulation (exam preparation)
- 4. Ability to tackle ambiguous and fuzzy problems (Temp/ weather)
- 5. Ability to understand and perceive

EXAMPLE 1

Consider the following image where a mouse is trying to search a maze in order to find its way from the bottom left to the piece of cheese in the image.

• The mouse was intelligent enough to find a solution to the problem at hand .

EXAMPLE 2

• Let us consider another problem. Consider the sequence of numbers below:1, 3, 7, 13, 21,... If you were asked to find the next number in the sequence what would be your answer? There are many ways but two ways mention below "adding the next even number to the"

$$2 + 1 = 3$$
,
 $4 + 3 = 7$,
 $6 + 7 = 13$,
 $8 + 13 = 21$,
 $10 + 21 = 31$

ANOTHER SEQUENCE OF NUMBERS

"subtract the first number in the sequence from the next in the sequence".