

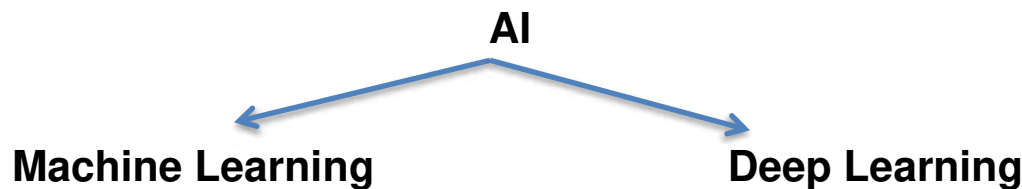
Artificial Intelligence

What is AI ?

The theory of development of computer systems able to perform tasks normally requiring human Intelligence such as visual perception, Speech Recognition ,Decision making and Translation between languages.

History of AI ?

The beginnings of modern AI can be traced to classical philosophers' attempts to describe human thinking as a symbolic system. But the field of AI wasn't formally founded until 1956, at a conference at Dartmouth College, in Hanover, New Hampshire, where the term "artificial intelligence" was coined. In 1956 Dartmouth Conference - A couple of years back people like scientists meet together in one room. The summer research project tested about 8 weeks end of their research the entire project was came to one person who called AI.



Alan Turing who is British mathematician German has nice system code to send the messages. That code was called **enigma**. For the Turing test it took days, months and years. In **1956 Marvin Minsky (Scientist)** explained about how machine learning and deep learning are using in **AI**. In **1981 AI got commercialized**. In **2002 (Roomba Company)** invented Robot for vaccume cleaner..it cleans halls ,carpet etc, In **2005 (War Robot)** it carry heavy loads,bombs etc..2000 robots were deployed in **IRAQ & AFGHANISTAN** In **2014 (AUTOPILOT)** this was the biggest break through in AI technology..because the car was drive and park by itself.

In 2019 The field of medicine

The Breast cancer detection..**AI** knows which cells are useful and which cells are harmful.

WHAT'S NEXT?

TYPES OF AI

1) NARROW AI

2) GENERAL AI

3) SUPER AI

s works AI is doing in couple of seconds.

DOMAINS OF AI:

HEALTH CARE: through chat boat helping.

STOCKREADING: some times loose money and some time you will get money all those knows AI.

SALES: how we implement AI

FINAL THOUGHTS YOUR AI WILL BE AS GOOD AS YOU ARE

1) **INTELLIGENCE** defined as one's capacity for underst**NARROW AI:** It will takes specific tasks. Eg: Mobile

2) **GENERAL AI:** Take knowledge from one domain transfers to other domain. Eg: Chart boat

3) **SUPER AI:** Machines that are extremely smart compared to human.

WHAT MAKES AI, INTELLIGENT

The art training a machine is Amazing.

KNOWLEDGE: Train machine to tough implementation

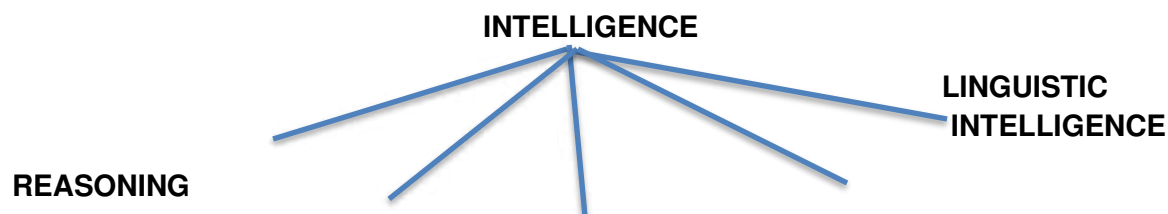
LEARNING: Machine should understand & learn , analysis, store

PROBLEM SOLVING: Implementing & solve the problem , machine can't solve the problem .very tough to achieve all these. Implementing in all ways to solve the problem.

COGNITION: Bringing Machine to Human level.

Human is taking 360,000 hour anding, self awareness, learning, emotional knowledge, planning, creativity & problem solving

AI is INTELLIGENCE IN MACHINES.

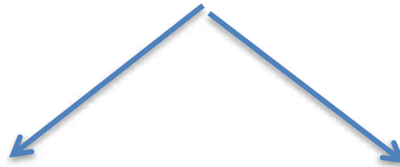


LEARNING

PROBLEMSOLVING

PERCEPTION

A I



MACHINE LEARNING

DEEP LEARNING

Machine learning and Deep learning are subsets of **AI**.

TYPES OF MACHINE LEARNING:

- 1) **SUPERVISED**
- 2) **UN SUPERVISED**
- 3) **REINFORCEMENT**

1) **SUPERVISED:** Training the machine give sample of data

Eg: Training Data

What is this image represent 97% it's an apple

This is an apple

Robot will say 97% it's an apple.

2) **UNSUPERVISED:** The model learns through observations and finds structure in the data

Eg: fruits are in the basket like apple ,banana,orange.

So system agrigate fruits like Cluster 1

Cluster 2

Cluster 3

Eg: In Netflix like movies and serials...

3) **REINFORCEMENT:** Agent interact with the environment and find out what is the best outcome

Eg: Agent interact Road (Is environment)
Eg: Self driving cars Elsa ,Google.



Deep Learning :

It is a sub set of machine learning.It tells that can we make the machine learn like how we are learning with our brain.How human learns like deep learning .

In this we have various techniques.

- Artificial Neural Network
- Convolutional Neural Network
- Re Current Neural Network