

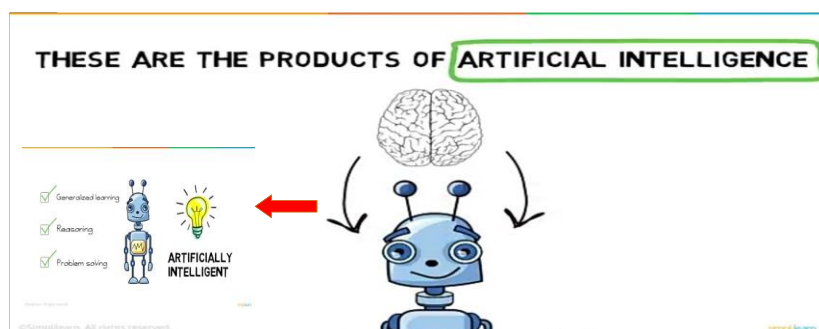


What is Artificial Intelligence?

- The study of computer systems that attempts to model and apply the intelligence of the human mind.
- The capability of a machine to imitate intelligent human behavior.
- A branch of a computer science dealing with the simulation of intelligent behavior in computer.
- Some of the activities computers with AI are designed for include:
 - Speech recognition
 - Learning
 - Planning
 - Problem solving

Philosophy of AI

- While exploiting the power of the computer systems, the curiosity of human, lead him to wonder, “Can a machine think and behave like humans do?”
- Thus, the development of AI started with the intention of creating similar intelligence in machines that we find and regard high in humans.



Early History of AI

- Early 1940's - Invention of Modern Computer
- Early 1950's - Computational Statistics
- Mid 1950's - Machine Learning
- In 1958 - Birth of Artificial Intelligence
- Mid 1960's - Natural Language processing
- Late 1960's - Computer Vision
- Late 1970's – Robotics
- 1990-2000 - Data Mining / Data Science
- Early 2010's - Deep Learning



Components of AI

Programming Without AI

- A computer program without AI can answer the specific questions it is meant to solve.
- Modification in the program leads to change in its structure.
- Modification is not quick and easy. It may lead to affecting the program adversely.

Programming With AI

- A computer program with AI can answer the generic questions it is meant to solve.
- AI programs can absorb new modifications by putting highly independent pieces of information together. Hence you can modify even a minute piece of information of program without affecting its structure.
- Quick and Easy program modification.

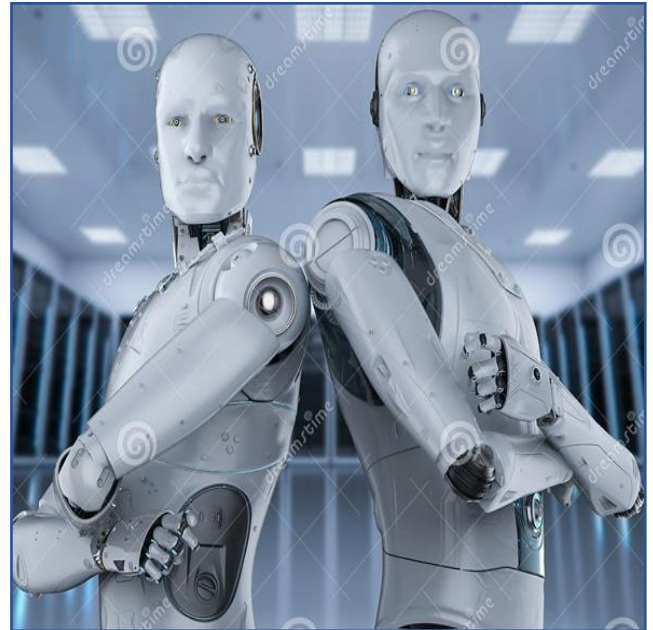
Pros and Cons of AI

Pros

- Precision and Accuracy
- Space Exploration.
- Used for Mining Process.
- Fraud Detection.
- Robotic Pet and Robotic Radio Surgery.
- Diagnosis and Treatment.

Cons

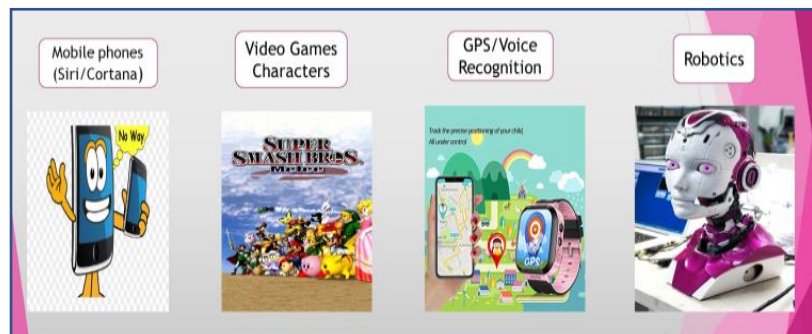
- Lack of the human touch.
- Lack of the creative mind.
- Lack of the common sense.
- Unemployment.
- Abilities of humans may diminish.
- Over dependency of humans on machine.



Current status of AI

We can see AI in all around us like:

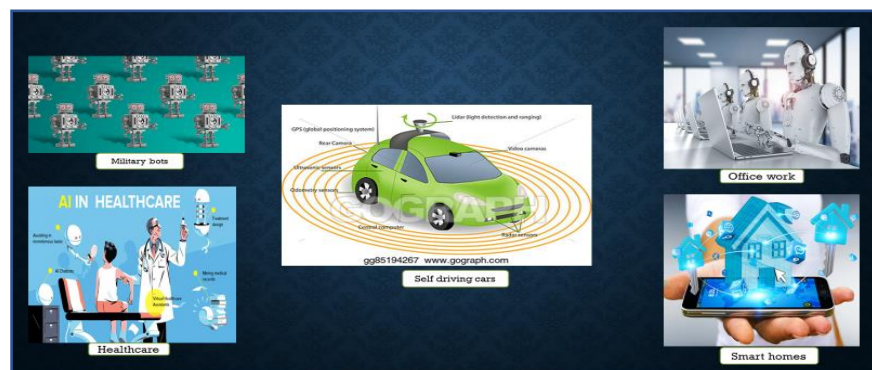
- In Robotics
- In Video Games Characters
- In Face Recognitions
- In using Siri/Cortana



Future of AI

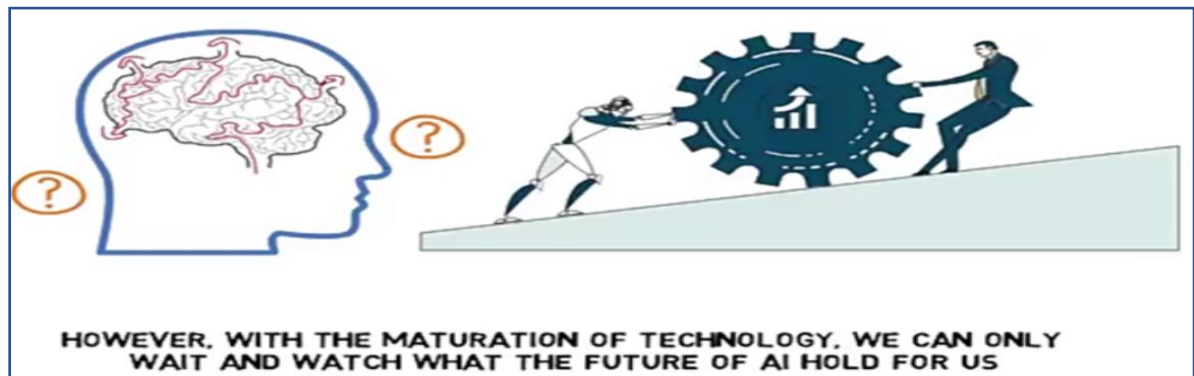
We'll see AI in future in different fields like:

- Military Bots
- Driverless Cars
- In Health Care
- Smart Homes
- Office Works



Conclusion

- Finally we can say that AI is the intelligence of the machine in the branch of computer science that aims to create it.
- John McCarthy who coined the term “Science and Engineering are making the Intelligent Machines”.
- Games with no AI?
 - Not possible!
 - Every game with computer controlled characters/opponents uses some source of AI.



~ Kishan Kumar Rai