

Impact of Artificial Intelligence on Humanity

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Terms used: Artificial Intelligency, AI

Humans have the natural capability of thinking and doing tasks due to the brain. The human brain is capable of accomplishing analytical tasks– This is the cognitive capacity (natural intelligence) of human beings and to some extent animals too – to learn, remember, decision making and performing tasks. Researchers and scientists worked to create computers – capable of performing activities – similar to the ones created by the human brain.

John McCarthy in 1956, termed artificial intelligence as – ‘combination of Science and Engineering to make intelligent devices for human welfare. Artificial Intelligence(A.I.)is an intellect – originated from human brain – to achieve efficiency and effectiveness in every task. It is related to all the major aspects of life and has spread wings to all the day-to-day life activities of the user.

A.I. is changing the way human beings live, work and play. Due to its profound impact on society, its implications will affect humanities as well. Artificial Intelligence A.I. is an intelligence designed by humans demonstrated by machines. A.I. is based on the principle of human intelligence and is defined as the way in which machines imitate human intelligence to learn human cognitive abilities and eventually surpass it. A.I. has created a number of tools that allow us to rethink how we integrate information, analyze data and use the results to improve decision making.

A.I. is classified into two categories. **Weak A.I.** – designed to perform a narrow task. The machine

behaves according to the programmed manner showcasing all human like activities like talking, thinking, signing, moving etc. (facial recognition on internet). **Strong A.I.** – Artificial General Intelligence (AGI)- Intelligent system which thinks on its own, train itself from its mistakes, does complex calculation and will provide a future forecast.

Strong A.I. can be programmed to be intelligent, have perception, beliefs and other cognitive capacities.

Functions of Artificial Intelligence:

- *Automation – Assist, system/process in automatically carrying out its activities.
- *Machine Learning – Programming a computer to behave through deep learning, digital signal processing.
- *Natural Language processing – Getting linguistic language from structured data.
- *Robotics – Automated control
- *Speech recognition –
- *Virtual agents –
- *Management of decision
- *Peer to peer networks
- *AI optimized hardware

Impact of A.I. on the Humanity

a. Environment

b. Agriculture : harvesting, airborne surveillance, remote sensing, pest/weed control, advisory services.

c. Government: A.I. is emerging as humanity’s most valuable assets. It can reduce administrative burdens, double economic growth rate. A.I. can raise concerns about privacy, speeding up and adopting digital tools.

d. Education : A.I. will create more jobs which will require more skills, new set of characteristics imagination, creativity and innovation.

e. Innovation : A.I. can make greater contribution to the market’s innovation – which will impact, productions, products and services.

f. Military and defence : A.I. is used in all military application, satellite imagery analysis and cyber defence.

g. Health Care and Medicine: A.I. improves health care capacity of workers.

h.: Labour Market Manufacturing Industry

Types of Impact of AI:

Impacts are of two types. Positive Impact and Negative Impacts. which are listed below.

Positive Impacts:

- Fast and accurate diagnostics
- Socially therapeutic robots for elderly and people with physical disabilities.
- Reduce errors related to human fatigue. AI is immune to the effects of mental weariness or emotional distraction.
- More quick and accurate task.
- A.I. based surgical techniques, causes significantly less harm to patients.
- Advances in AI technology improves radiology, prenatal imaging, cardiac M.R.I. etc.
- Massive social change

Negative Impacts:

- Humans becoming lazier
- Diminishing human closeness.
- No need of personal gathering for communication.
- Replace need for people to meet face to face.
- Unemployment many works will be replaced by machinery.
- Wealth inequality due to major share of earnings for AI investors.
- No control of humans, as A.I. may ignore the command of human controller.
- A.I. made possible the virtual presence of medical professionals.
- Reliable and safe system of health care.
- Autonomous vehicles (drones and self driving cars)
- Creating art
- Playing games
- Search Engines

- Online assistants
- Image recognition in photographs
- Shows filtering
- Made human life much easier.
- Racial bias by human masters creating A.I.
- Command of destruction by programmers may create world disaster.

Challenge of A.I.

To operate A.I. as well as for designing, programming, human experts are essential. Beth Kinding, a technology analyst indicated that A.I. is not omnipotent to solve all the problems for human kinds, thus vigilant watch of A.I.'s function is essential. Elizabeth Gibney brought up the question of an ethical A.I. So there is need to develop A.I. ethics. With the rise of Artificial Intelligence – human beings are facing a new challenge to establish relationship toward A.I. which is not natural. Now humanity has to deal with human-made artificial and unnatural Artificial intelligence. A.I. is without feeling or personality, so can have a negative impact on humans and society Stephen Hawking in 2014 warned that the development of full A.I. would spell the end of the human race. Nick Bostrom argued that sufficiently intelligent A.I. can exhibit convergent behavior – acquiring resources or protecting itself from being shut down and it may harm humanity. Studies have shown that A.I. has tremendous potential to positively impact all manner of life but can reflect the very prejudices human have tried to overcome. A.I. systems must be accountable, explainable and unbiased (Ethics Guidelines for Trustworthy A.I. 2019).

Recommendations:

1. Humans should be able to intervene/oversee every decision that the software makes.
2. Personal data collected by A.I. systems should be secure, not accessible to just anyone.
3. Operators should be able to explain the decisions their A.I. systems make.
4. Services provided by A.I. should be available to all/no biases.

5. A.I. system should be sustainable and enhance positive social change.

6. AI systems should be auditable, negative impacts should be acknowledged and reported in advance.

AI must be equipped with human sensibility. Technology is to serve not to manipulated humans and his society. Conclusions: Artificial Intelligence is reality of the world and is here to stay. Joseph Weizen Baum a pioneer of A.I. said that we must not let computers make important decisions for us because AI as machine will never possess human qualities such as compassion and wisdom to morally, discuss and judge. All the ethical quality of AI depends on the human designers. The purpose and function of AI should benefit the whole human life, society and Universe Researches need to be focused in directions where AI is helpful for humanity. This will bring back jobs requiring creativity, human presence, social and emotional intelligence and subjective decision making. AI designers must be accountable for whatever they manufacture and create.

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“When a leader empowers the people, such leaders are created who can change the course of nation itself”

-APJ Abdul Kalam