

# Artificial Intelligence can be a saviour to the humanity.

## Outline

### 1. Introduction

Definition of Artificial Intelligence

Thesis Statement

The prevalence of AI over time has turned out to be a boon or bane for mankind. The productive or destructive role of AI depends on how it is developed and regulated. Albeit various threats AI poses to humanity but the potential capability of AI to serve human race surpasses them all.

### 2. The era of AI : a time of scientific miracle for human race

### 3. ~~How~~ AI serves as a saviour for mankind

3.1 AI serves as a miracle in health-care through early diagnosis and regulating patient health status

Case in Point : AI based Diabetic Retinopathy Detection

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Excellent

checked by  
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Kashay Malik

3.2 Integration of AI in governance  
promotes healthy democracy via  
transparent government processes

Case in Point: Finland's AI-based  
Budget Transparency  
System.

3.3 Harnessing the potential of AI  
in streamlining public administration.

Case in Point: Estonia's step  
toward civic engagement  
through "the digital  
republic" system.

3.4 Potential of AI in providing  
deterrence against <sup>bird</sup> collision  
accidents in aviation industry.

Case in Point: Deployment of  
Robotic Falcon at airports.

3.5 AI, a tool for Economic boom:

Automation, customer choice  
prediction via chatbots and  
Marketing campaigns.

Case in Point: Japanese Beverage  
Industry

3.6 A game changer for differently-abled people in day to day activities: Siri, Robots.

Case in Point: ALOHA robot by Stanford University.

3.7 AI's potential in bridging the cross-cultural communication barrier.

Case in Point: Smart Glasses for real-time language translation.

3.8 A master in Education Sector: Research and Analysis and AI-based ChatGPT.

3.9 AI - A driver of Revolution in the Construction Industry.

Case in Point: SAM Robot (Semi-Automated Mason)

3.10 AI's potential in changing the defense game of states.

Case in Point: Putin's Speech

3.11 An agent for Environmental Conservation and Disaster Management ; Green Revolution, Early disaster warnings

Case in Point : AI-based FIRE Robot for wildfires prediction.

3.12 AI : A Guarantor of Global Food security ; pest control and Precision Agriculture.

Case in Point : The Netherlands AI based Robots

3.13 An advocate of Peace and Social Order : preventing frauds in finances.

Case in Point : Fraugster (an AI-based detector)

## 4. Challenges and Considerations for AI Implementation.

4.1 Overcoming Technological barriers and biases in AI development.

4.2. Ensuring fairness and Transparency in AI algorithms.

4.3 International collaboration and policy frameworks for responsible AI governance.

4.4 Unintended consequence of AI: Breachment of data privacy, Hacking, and protection of data security in AI systems

## 5. Conclusion

The powerful rise of AI could either be the best or the worst thing ever happened to humanity. We do not know much.

~ Stephen Hawking

From the early human history in the Stone Age to the present era, the humanity's journey has been marked by technological advancements and innovations, with each era bringing forth new tools and discoveries to enhance our existence. Among such technological advancements, the prevalence of Artificial Intelligence in the 21<sup>st</sup> century has been a game changer for human race.

Artificial Intelligence is the usage of digital computers or computer systems that performs work associated with human intelligence. The prevalence of AI has turned out to be a boon or bane for mankind. The productive or

destructive capabilities of AI highly depends on how it is developed and regulated. Albeit various threats AI poses to mankind but the potential role of Artificial Intelligence to serve human race in wide horizons of health, education, economics and governance surpasses them all. The vicinity of AI has reached every domain of life ranging from provision of better healthcare, enhancement of economic progress, building a healthy democracy, environment sustainability, increased agricultural productivity to mitigate food crisis to the basic assistance in the smooth running of daily activities - underscores its potential to be as a saviour of human race. Albeit to the two faces to the same coin, AI also has certain limitations, which if uncontrolled lead to disaster and chaos. Therefore, the development of far-sighted policies can harness the positive impacts of AI to serve

humanity in all spheres of life.

Man in the early times had to go through physical labor to fulfill its basic needs for survival. However, as time instigated the evolutionary process, the man's attempt to fulfill its desires also changed. In the present era of scientific revolution, the technological advancement in the form of AI has revolutionized the existence of human race. Through the simulation of human intelligence, it has eased humankind in different walls of life.

Artificial Intelligence has opened a portal that leads toward human betterment. There are several paths to reach that portal among which is a better and sound landscape of healthcare. AI assists human race in upgrading health through early diagnosis of diseases and early cancer detection via the usage of deep-learning algorithms. These



AI-driven systems are not only fruitful to the patients but also minimize the burden from the shoulders of doctors. For instance, AI-based detection of Diabetic Retinopathy has assisted doctors in early diagnosis of disease in patients. Moreover, development of AI based skin cancer system by Stanford University has proved to be a game changer for diagnostics domain. All these innovations by AI serve humanity in the field of medicine and healthcare.

The potential capability of Artificial Intelligence aids human race by assisting the smooth running of governmental processes and building trust among its citizens. The transparency exhibited by the government institutes would establish an atmosphere of healthy democracy and it would develop public trust in the institutions. Finland has developed AI based system for budget transparency. The open portal provides real-time

access to citizens that can keep an eye on government's expenditures and spending. This provides an excellent example as to how AI has been beneficial in establishing trust between citizens and governments.

Alongside governance, the power of AI can be harnessed in streamlining public administration at local level through civic engagement. This can unleash the burden on bureaucracies and it would be convenient for streamlining public affairs. The country Estonia has established "the digital-republic" that assists public queries and answers them; thereby helping humankind in public affairs.

Deterrence against aviation accidents is one of the domains where AI has proven to be a saviour for humanity. As per the report published by International Civil Aviation Industry,

the collision between birds and aeroplanes leads to loss of \$1.4 billion usd annually. The rescue through development of AI-based robots in this domain has served the most important cause of humanity. The deployment of Robotic Falcons at airports have been proved to be eighty-five percent effective at minimizing the collision accidents.

The foundation of a state in the era of 21<sup>st</sup> century is based on economic stability. To boost economic factor, AI is there to serve mankind. Artificial intelligence boosts economy via automation of manufacturing process, chatbots for customer convenience and through supply chain management. The deployment of Artificial Intelligence based Robots has improved the efficacy of work. Bionic Hive, a firm based in Israel has developed Robotic fleet known as "The Squid" that

manages everything - from the arrival of goods in the industry to the time they are dispatched. Therefore, this work efficiency has increased in export sector causing economic boom in the world.

Moreover, Artificial Intelligence has not even left the space in assisting human in day to day activities. The human increasing dependence on technology has eased his daily activities. Along with this, the Artificial Intelligence is fruitful for differently abled people. They can run their daily affairs quite smoothly in the present era than before. An individual with lower body paralyzed can no longer depend on another fellow being for the conduction of its activities. This mindblowing aspect of AI can be gauged from the fact that Robotic "ALPHA" developed by Stanford University assists in

diverse and intricate matters of household with greater efficiency. Google Search Bar Predictions are quite beneficial because of its assistance in research domain based on Individual behavior and search patterns.

With the advent of globalization, the world has become more interconnected than it used to be. But the cross-cultural communication barrier was an impediment that always existed. Artificial Intelligence has bridged this gap and enable people to understand the beauty of diverse language without compromising on diversity. The development of Smart Glasses by Brilliant labs enable the real-time language translation thereby assisting human in comprehending different languages quite easily.

Language, a powerful discourse, is essential component of learning. AI has not only resolved the language barrier but it has also

changed the learning dynamics. Artificial Intelligence softwares like ChatGPT, EssayPro.ai has assisted student body in comprehending different concepts with great ease. For instance Adobe Acrobat has launched a feature that provides complete summaries to the Articles thereby providing a useful benefit.

Artificial Intelligence has made a striking revolution in the construction industry. It has changed the game of building houses. The development of robots like the one SAM robot (semi-automation Mason) has the ability to uplift 1200 bricks, surpassing the human efficiency to lift 500 bricks per day.

The most prominent field where the developed states are harnessing the potential capability of AI is defense. AI-based

missiles and drones are being developed by states to increase defense power.

The importance of AI in the defense domain can be gauged from the Putin words ~~that~~ follows.

The nation that leads in AI will be the nation that rule the world.

Therefore AI has assisted man in enhancing its defense against enemies.

The promising aspect of AI that it has provided to mankind is environment ~~stability~~ sustainability. Through green ~~revolution~~ and sustainable cities, AI has provided a step to humanity toward sustainable environment. The development of self-driving cars have been found to reduce green house gas emissions by 50% in 2050. Similarly sustainable cities allow to ~~manage~~ and prevent disaster through early detection of AI.

For instance, a start-up ~~Kettle~~ has developed an AI-Fire Robot that can early predict the chances of wildfire

in an area. Therefore, it helps human race in taking precautionary measures to avoid disaster.

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role as a saviour to humanity can be illustrated from the fact that it helps in mitigating food crisis through bringing revolution in Agriculture. Precision Agriculture makes use of AI-based sensors in Robots that detect environmental factors like temperature, moisture, and lighting in greenhouse. By providing real-time analysis, it helps farmers to increase crop yield and to enhance its quality. - a widely practiced approach in the Netherlands

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has been a saviour to small businesses that rely on minimal resources for developing a better livelihood. The domain of films, art and digital marketing highly involves AI in modern times. The AI-based



SORA provides ~~real~~ videos with text prompts. The quality of videos by SORA ~~are~~ is similar to the video captured in real-time. This feature can help millions of people to increase ~~income~~ by generating quality content through the usage of AI-based ~~softwares~~.

Moreover ~~fraudulent~~ dealings are a dime a dozen in the world of Internet and Technology. But Artificial Intelligence is here for the rescue. The deep-learning algorithms have the ability to recognize fraud in financial transactions and thus can help humankind from scams. For instance ~~Fraudster~~ is AI-based Fraud detection system that ~~detects~~ fraud financial transactions in less than fifteen milliseconds.

Although Artificial Intelligence is the world where its positive implications can be harnessed for the betterment of

humankind. But this technology comes with certain challenges that serve as impediment in the full utilization of AI solely for serving humanity. Its misuse can lead to disaster and chaos.

Artificial Intelligence is a mere tool and works on simulations of natural intelligence. It is in the hands of the developer that what it feeds to the technology will be simulated at amplified rate. The biases - the cognitive ones - or any other bias can have drastic effect upon the working of AI. The moral values one holds would be manifested in the form of AI product. For instance, AI-based self-driving cars if encounter a situation with the option to hit the car in the pole or to hit the boy that came in front of it. In such critical situation, AI finds itself difficult to navigate through it, as it might chose one of

the two options depending on the simulation it has attained over some time. This poses a question to the ethical concerns of using AI.

Another major obstacle is that AI creates inequality in the lives of people. AI robots replacing human jobs on one hand increases efficacy that is beneficial for the owner but at the same time impoverishes the poor. Thereby, creating inequality between haves and have-nots.

Ensuring fairness and transparency in AI algorithms is difficult to achieve. By enhancing transparency, it would get easier to control AI algorithms in preventing immoral concerns.

Breaching data privacy has become an easy job in today's world. Mimicking human voices can help criminals and terrorist organizations to cause psychological damage to

the parents and can ask for ransom. This ransom money can be utilized for funding terrorist organizations - a major nightmare for the world. Therefore, the regulation of policies on the restricted use of Artificial Intelligence is the need of hour so that AI's potential can be utilized to serve humanity in the best possible ways.

In conclusion, as we reflect on AI's remarkable journey from its inception to its current transformative potential, it becomes clear that its role in addressing global challenges and improving human well-being is undeniable. However, we must also recognize the critical importance of ethical AI development and responsible deployment. By adhering to the principles of fairness, transparency, and human values, we can ensure that AI truly serves

as a beacon of hope and progress  
for humanity.

As Mahatma Gandhi once  
said, "The true measure of any  
society can be found in how  
it treats its most vulnerable  
members." Similarly, the true  
measure of AI impact will be  
determined by its commitment to  
uplifting all members of society,  
without leaving any one behind.