

# 1 Introduction

## Thesis Statement.

AI machines -have not overpowered its bounds. AI -has created by humans for their assistance.

AI may pose <sup>several</sup> threats to humans in future. So, by regulating AI, threats can be reduced and its potential benefits can be increased.

2 How AI has ~~revolution~~ evolved.

3 AI has been working within its bounds.

(a) AI machines need humans for their control and maintenance

(b) AI helps doctors, nurses, and clerical staff to perform their daily tasks easily.

(c) AI assists humans to increase the crops productivity within limited resources

(d) AI has increased the communication capabilities of humans.

(e) AI machines can help humans to combat climate change.

4 AI machines have overpowered their bounds.

(a) AI machines learn from their past experiences and work efficiently.

(b) AI system can be hacked or by can be used by bad actors to produce dangerous drugs.

(c) AI machines are not affordable by poor farmers.

(d) AI can be used to destroy the communication system by spreading disinformation.

(e) AI machines are a big source of green house gases which deteriorate our climate.

5 AI can work for the benefits of humans if humans regulate it according.

(a) Humans make AI relevant in this era.

(b) Regulations and security devices make AI relevant in medical field.

(c) Those who can afford <sup>AI machines</sup> can take benefits in agriculture field.

(d) Spread of disinformation can be stopped by the government by efficient use of AI.

(e) AI machines provides more solutions to combat climate change than their challenges.

b Conclusion.

"Regulate AI before that  
it Regulate us"

(Yuval Noah)

AI machines, robots and other AI related technologies have made human life easier, faster, and comfortable.

AI has <sup>been</sup> providing a lot of opportunities to humans who can transform their futures. AI has also enabled people to predict their futures. But with all these benefits, and opportunities, AI is also posing many threats and challenges to human beings. But, now AI has not overpowered its bounds. AI has invented by humans who are using it for their benefits. As, AI machines have abilities to enhanced its skills. In this manner, AI can pose threats to humans in near future. But its threats can be reduced if humans regulate it according

to their moral values. AI has been working within its bounds because it needs humans for its efficient working. Use of AI in medical fields has made routine tasks easier and faster. AI has been using in agriculture field to increase crops productivity. AI has also been using in communication system and for fighting climate change problems. The threats that AI poses can be reduce if regulate AI and use security measures in medical field. AI has <sup>been</sup> revolutionizing the agriculture field. So, governments can also make policies to stop the spread of disinformation. In this <sup>way</sup> AI will become a blessing for humans.

eAs AI is a field of Computer Science. It came into existence in the <sup>early</sup> mid of twentieth century. But this field grab the attention

of researchers and scientist in the past two decades of twenty first century. AI has evolved very fastly. It has turned the fiction into reality. The things that were consider a part of fiction just 20 years ago. AI has turned them into a reality. Now machines are communicating with humans in their native languages. For example, A robot whose name is Siri which has ability to talk like a human. He can communicate with humans like a human being. This shows that AI has evolved very quickly within a few years.

Although AI has evolved but it has not overpowered its bounds; it has been working within its bounds. AI has been helping humans to perform their every day <sup>tasks</sup> swiftly.

AI can perform different types of administrative tasks and allows the medical staff to perform other important tasks. AI tools enables doctors and nurses to spend their most of time with patients instead of spending this time to perform technical and administrative tasks. AI experts systems have enabled doctors to perform detailed medical checkup of the patients and prescribe them perfect medicines. AI robots and machines helps doctors and nurses to perform operation theater complex tasks perfectly and quickly. AI tools are also being used to identify hidden diseases. **For**

**example**, a successful operation is performed by robot in Karachi on 24 oct 2023 in Pakistan.

AI use is most widely being used in UK, US, France, and

other developed countries. This demonstrates that AI has revolutionize the medical field and perform significant tasks quickly and perfectly.

Not only AI has revolutionize medical field but it has also revolutionize the agriculture field. AI is being used to make hybrid and climate-resilient seeds which helps people to fulfill their food needs. AI robot technology is also being used in agriculture fields such as drip irrigation ~~system~~ <sup>system</sup> ~~crop~~ which helps to conserve water and enable farmers to use it efficient. For example: driver less tractors has been helping farmers to spend their precious time on other significant tasks. Similarly AI system can also be used to monitor



the temperature of <sup>crop</sup> fields which helps to increase the crops yield significantly.

**For example.** IOT devices and robots checks the amount of water, fertilizers, and temperature of plants. If they find some deficiency of any relevant material then these AI devices fulfill the needs of that plant. This shows that AI has significantly improved the agriculture productivity.

In the same way, AI has increased the communication capabilities of humans and it has also enhanced the security of telecommunication system. Communication is very important for the betterment of society. Only an effective communication enables people to exchange their ideas efficiently. AI tools help people to learn different languages without any instructor.

Many AI tools and apps are available which interact and communicate with ~~humans~~<sup>people</sup> like a human. For example, Grammarly, ChatGPT, and many other AI tools analyze the pattern and the expression of <sup>the</sup> writing of a person. They find errors and give suggestions related to errors. This elaborates that how AI tools have made the communication effective and easier.

AI machines not only help humans to communicate effectively but they also assist human to combat global problems such as climate change. The whole world is facing the challenges and threats that are posed by climate change.

AI technology can help us to find the solutions of climate change. Because

AI technology is fed by existing data. Then AI tools use that data to predict the future.

So, AI tools can help us to find solution and they can also be used to absorb green house gases. AI can help to increase the efficiency of renewable energy resources. AI can also help to find new renewable energy resources. ~~This~~

In this ~~way~~<sup>way</sup> dependency on fossil fuels as a source of energy will reduce. **According to Forbes,** more than 87% scientist and researchers believe that AI can help them to ~~combat~~ climate change. This show that AI is a helpful tool to mitigate the risks of climate change.

Although it is perceived that AI is working within its bounds but it has ~~also~~ overpowered its bounds in different fields. Because

AI machines and algorithms have ability that they can learn from their past experiences and they can improve themselves.

In the initial stages, AI machines are trained by humans but after proper training these machines can work automatically without the intervention of humans.

So AI machines can overpower their bounds. For example:

driverless google car has violated some rules and caused accidents.

It overpowered traffic rules and threaten human. This shows

that AI can work and can crossed the human defined rules and regulations.

Similarly, AI system can be hacked or can be used by bad actors to produce dangerous drugs.

Bad actors are existing in every corner of the world. Bad actors always use <sup>their</sup> power to

damage humans. AI I would be more beneficial for bad bad actors because it has immense potential to <sup>raise</sup> risks to humans. Not only a common man but also those people who have developed this technology have showned their concerns over the negative use of AI. Artificial intelligence pioneer **Geoffrey Hinton** has left google and warned the world about its potential adverse impacts on human. He said, "It is hardly to see how you can prevent AI from bad actors from using it for bad things, future versions of technology poses more threats to humanity." This elaborates that AI system is a real threat to humans.

Likewise, AI machines are not affordable by poor farmers because poor farmers have a very little amount of capital. They live.

their lives from hand to mouth. They cannot afford to ~~purchase~~ eat two times meal a day. Therefore, it becomes very difficult to buy expensive machines. AI models which used in agriculture are very expensive. AI machines and tools also require maintenance which is again a very costly task. Robots and machines need energy for work, which is again not affordable by poor farmers. Small farms owners can not afford such an expensive AI models. **For examples:**

Under developed countries such as Sudan, Nigeria, Pakistan where high technological machines and AI tools are not available. This shows that poor farms have no access to expensive AI tools and technologies.

AI machines

In the same manner, AI can also be used to destroy the communication system by spreading misinformation, hacking, and disinformation. It is seen that AI has an immense potential to spread misinformation, and it can also be used to hack the communication system of humans. AI tools can write a detailed article on any negative thing and can prove it as a beneficial thing for humans. AI. Gary Marcus who is known for <sup>his</sup> research on cognitive psychology and AI states that an AI tool 'Galactica' produced a scientific detailed research article on the topic: 'why to ~~cut~~ crush glass' with reference to fabricate information. This shows that by spreading disinformation and misinformation, AI can hack our communication system.

AI machines do not spread  
misinformation but it is  
also a big source of green  
house gases which are a  
real threat to our climate.

AI machines works according  
to the given data. AI  
models are trained, which  
produces emit a large  
amount of green-house gases.

According to the report of  
MIT, AI model which  
is trained in the field emits  
65600 pounds carbon dioxide  
gas which is five time  
the whole lifetime emission  
of an American car. This  
demonstrate that AI is a  
big threat to our environment  
and climate.

As AI poses many serious  
threats to humans but AI  
can be used for the benefits  
of humans, if AI research



and development is conducted within rules and regulations.

These are the humans that make AI most relevant and valuable in this era. Humans use AI for their benefits and comfort. AI is developed by humans; its maintenance is also done by humans. For example, ChatGPT is a platform where people can get answers of different types of question. It is released in 2022 but also updated in the mid of 2023. This shows that human use AI for their benefit and cannot replace humans.

Regulations and security devices make AI relevant in medical field.

If AI devices is deployed into the medical field with the some regulations then AI can be secured. This is because, AI system would be trusted

beneficial only if it would be secured. Only authorized access of AI by authenticated and verified users can make it more secured. The AI system can be used in the administrative tasks and operation theaters. The security guidelines of MIT institutions can help to enhance the security of AI system. For example: If AI software is only connected to secured network then chances of the ~~AI~~ hacking of AI software would be reduced. This shows that ~~the~~ secure AI system is more useful and helpful in medical field.

Fr Similarly, Those farmers and people who can afford AI machines and robots, can take benefits from AI. No doubt, AI machines are expensive and require maintenance but those ~~of~~ farmers

who can afford AI can transform the agriculture fields. AI machines provide more crop yield than traditional methods. AI machines also minimized the labour cost significantly. AI system and other modern machines are mostly widely used in developed and developing countries. The farmers of developed countries earn a lot of profit due to modernization of farming techniques. For example: United States, Canada, UK, Italy and other developed countries whose labour involved in agriculture is less than 10 percent but they are fulfilling most of their food demands by themselves. This demonstrate that AI in developed world helps farmers to produce more crop yield and earn profit.

In the same manner, spread of disinformation can be controlled

by the government and international bodies. Disinformation is the big threat but it can be minimized if govt & international community make proper policies on the proper use of AI. AI system can be released in public only if they are approved and verified by the international organizations. Although, a regulatory body related to AI is not yet developed. But AI development and research can be efficiently controlled by regulatory body in future. UNSC meet first time in the history on 16 July, 2023 to discuss the potential adverse affects of AI on humans. This shows that disinformation will not be spread by AI if it is controlled by regulatory body.

Likewise, AI has immense potential to find solutions

and combat the challenges of climate change. Climate change is one of the biggest risks that humans ~~are~~ <sup>is</sup> facing. Some AI tools are being used to observe the patterns of weather, climate, and their related attributes. All the data is collected in a centralized system which helps scientist and other experts to analyze data and find solutions regarding climate change. AI expert system can also be used for that purpose. To collect data related to climate and weather different AI techniques are used. For example: Remote sensing is a technique which helps to observe or collect data where human physical access is not possible. This highlights that AI helps human to find solutions of climate change.

In conclusion, AI has not

overpowered its bounds because it is just a technology which is developed by and developed for human. AI has been working within its bounds and helping humans to revolutionize medical and agriculture fields. AI has also made it easy to communicate with other human beings and ~~communi~~ machines.

AI machines also help to combat the challenges of climate change. AI machines become useless without humans.

AI need human for more research and development. So if international community ~~will~~ sets the rules and regulations for AI research and development then AI will not overpower its bounds. Rather, it will serve the humanity.

AI is a tool. The choice about how it gets deployed is ours.  
(Orion Etzioni)