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Artificial Intelligence has Overstepped its Bounds

Outline

1. Introduction :

Thesis Statement : Owing to many reasons, artificial intelligence has overstepped its bounds in various ways. Besides, artificial intelligence provides multiple benefits. However, pertinent steps need to be taken to overcome its implications.

2. How Artificial Intelligence has Overstepped its Bounds ?

(2.1) Jobs displacement ;
(Mckensey Global Institute Report)

(2.2) Online frauds and cyber-crime

(2.3) Threats to privacy

(2.4) Ethical dilemmas ;

Case in point : Oxford Institute Study report

(2.5) Deep fakes ; spreading misinformation and disinformation

(2.6) Creation of built-in biased algorithms

(2.7) Autonomous weapons ;

(Killer Robots)

(2.8) Impact on Human values ;

(Eroding human skills and expertise)

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3. Why Artificial Intelligence has Overstepped its Bounds ?

(3.1) Quest for economic growth ;

Case in point : USA and China warfare

(3.2) Race for technological advancement

4. Benefits Associated with Artificial Intelligence

(4.1) Transforming medical sector ;

Case in point : Personalized health monitoring and telepathic doctors

(4.2) Improvement in research, learning, and education ;

Case in point : Use of CHATGPT and intelligent tutoring systems

(4.3) Revolutionizing transportation ;

Case in point : (a) Autonomous vehicles

(b) Traffic predictions

(4.4) Space exploration ;

Case in point : Urban planning through satellite observations

5. Way Forward to Overcome the Implications of A.I

(5.1) Regulating ethical framework through

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international cooperation ;

Case in point : Global A.I standard and regulation

(5.2) Training programmes for A.I related jobs .

Case in point : Upskilling and reskilling

(5.3) Strict implementation of cyber-security measures ;

Case in point : Investment to strengthen data protection laws

(5.4) Focus on sustainable and human-centric A.I development ;

Case in point : Stephen Hawking Quotation

6. Conclusion

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Twenty first century is the age of science and technology. In fact, those countries will make development who knows how to explore and use the technology effectively. In this manner, artificial intelligence is one of the manifestations. So, due to some reasons, AI has overstepped its bounds in multiple ways. Despite this, AI has several advantages. However, stringent measures are required to be taken to overcome its harsh impacts. In this fashion, AI has surpassed its boundaries in different ways, such as jobs displacement, cyber-crimes, privacy concerns, ethical dilemma, deep-fakes and so on. In short, AI has impacted the world in larger manner. For this, some reasons are responsible like competition for economic growth and race for technological advancement. Despite this, the other side of AI provides various benefits which include transformation in medical sector, improvement in learning and education, revolutionizing transportation, and space exploration. Therefore, it is the need of hour that AI should be used in a balanced, controlled, and in regulated manner. To minimize its

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impacts, A.I should be used with some careful measures like regulating ^{its} ethical framework through international cooperation, promoting training programmes for AI related jobs, and strict implementation of cyber-security measures. By implementing the above mentioned measures, AI could be use in responsible manner, and its disadvantages can be minimized.

The following paragraphs will expose how A.I has overstepped its bounds in detail. The first factor that has expanded A.I out of its limit is jobs displacement. Millions of labours and workers are at risk of unemployment due to advancement of A.I. In near future, people will loses their jobs to robots and other A.I operated machine. A report by McKinsey Global Institute estimates that upto 800 Million jobs could be displaced by automation by 2030. This shows how alarming could be the situation with more and more unemployment. Hence, it is likely to deduce that A.I will replaces most of human beings employment and will lead to massive unemployment.

Similarly, the second element

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that has caused overstepping of an A.I is online frauds and cyber-crimes. With onset of A.I, online crimes through use of A.I technology is enhanced exponentially. Even the bank accounts and personal data in ones own device is not safe. There is always a risk of data theft and its misuse. Due to A.I, hacking and terrorism are accelerated. In the same manner, potential for misuse of online platform increased. Therefore, the peril of AI includes cyber-crime and online frauds.

In addition to cyber-crimes, the third thing that has fueled misuse of A.I is privacy concerns. With the invention of A.I technology, now there is a greater threats to privacy of any system. The privacy of not only an individual but also of any department is at stake. According to A.I analysts, potential misuse of personal information and surveillance will increase due to misuse of A.I. Access to personal data through hacking and other techniques have made advancement with help of A.I. So, privacy concerns are the disadvantages posed by haphaz

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ard growth of A.I

In the same way, the fourth substance due to which A.I has overstepped from its limit is ethical dilemmas. Being a machine machine invented by humans cannot distinguish properly between what is right and what is wrong. The unethical use of CHATGPT and social media further exacerbates the situation. Now, it has become very difficult for a user to make best decision. A study by Oxford Internet Institute found that fake news spread six times faster than true news on X (Twitter). If this trend continues, then a time will come that real and ethical content will reduce to none. As a result, it can be said that A.I has overstepped its bounds in shape of ethical dilemmas.

Additionally, the fifth item in this series is deep fakes. It has made difficult for every celebrity to live a pious life. Because of spreading misinformation, through fake videos and audio-clips, it has become very difficult to distinguish between real and fake content. Politicians, celebrities, and even any person can be-

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some target of it. This technology creates content in such manner that it is very difficult to termed it fake. Consequently, it is to be accepted to say that deep fakes is the area where AI has overstepped from its path.

In the same manner, the sixth point is creation of built-in biased algorithms. Biasness in AI algorithm is discriminatory in nature. It is against the law of nature and humanity. It can shape public opinion based on the vested interest of its creator. Likewise, the powerful capitalists can use it for their malicious purpose. The biased algorithms can result into discriminatory outcomes in areas like hiring, lending, and criminal justice. These are a severe consequences on the life of human beings. Resultantly, it cannot be denied to say that AI has step out from its bounds in the form of creating built-in biased algorithms.

Likewise, the seventh argument in this pattern is autonomous weapons. Such weapons can be used through the use of AI technology.

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These are also called as A.I powered weapons. It has certain ethical concerns in its misuse. The Killer Robots is its prime example. USA and other super-power countries are trying to make this technology as part of their military campaign. In future, it can put severe consequences. Thus, creation and misuse of autonomous weapons is the area where A.I has derailed from its way.

Furthermore, the Eighth and last factor in this regard is the impact of A.I on human values. The human behaviour and values can be severely distorted due to overuse of A.I. The overdependency on using A.I potentially eroding critical thinking skills and social connections. The skills, creativity, and expertise of human being will not improve with the passage of time. In fact, it is taking out human emotions out of life. In near future, human beings will become under control of A.I machines and its algorithms. As, human beings use his brain and thinking power very less, automatically machine will surpasses their capabilities. Conclusively, it

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can be said that A.I has crossed its boundaries by putting impacts on human values.

After discussing how A.I has overstepped from its bounds, the upcoming two paragraphs will describe the reasons behind A.I overstepping. The first reason is a quest for economic growth. Different countries of the world are competing with each other for improving their economy. As a result, A.I is used badly. The ongoing USA-China trade war is one of its example. Both powers fight for 5G technology and A.I as well. The respective companies of both countries are involve in it, such as Apple, and Huawei. In such situation, the proper use and misuse of A.I technology is not taken into consideration. Hence, greed for a strong economy has led to overstepping of A.I from its bounds.

Similarly, the second and last cause is race for technological advancement. The technology advanced so rapidly that it is easy to manipulate and hack any item. A.I in this manner is like adding fuel to the fire.

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Indeed, different countries try to advance their technology as compared to the other nations. In this regard, they get an access to latest technology. Meanwhile, its misuses are not taken into consideration properly. As a result, A.I technology is misused. Therefore, it is correct to say that race for technological advancement is the rationale behind A.I encroachment.

After describing the reasons behind A.I overstepping, the next paragraphs will narrate the benefits associated with A.I. The first benefit of A.I is transforming medical sectors. In fact, medical science and research advance in greater extent. Now, A.I can analyze a patient data to provide tailored treatment plans. Personalized health monitoring improved and advanced with this technology. Furthermore, telepathic doctors and treatment facility is available for most of the time. A.I has accelerated drug discovery and its efficacy. So, transformation in medical field is one of the main benefits provided by A.I.

Additionally, improvement in research, learning, and education is the advantages

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given by A.I. As a matter of fact, learning process has evolved positively. Research and learning has become very easy for a researcher. Likewise, individual based learning has developed more. The prime examples in this manner is Chat-GPT and Intelligent tutoring systems. By using Chat-GPT, one can easily get an updated information about any query. This process is very quick and reliable. Therefore, improvements in learning is considered as benefits associated with A.I.

Furthermore, revolutionizing transportation is another benefits associated with A.I. Undoubtedly, the transportation sector has developed by leaps and bounds. Autonomous vehicles is introduced with help of A.I. The cars or any other vehicles will travel without driver. Alongwith this, fuel efficiency is enhanced. Similarly with use of AI, traffic predictions for commuters, accidents or road blockages can be acquired. Driverless truck is already used in USA due to AI technology. Consequently, A.I provides multiple advantages in the transportation sector.

Lastly, space exploration is another promise of A.I for good purpose.

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A.I enabled computers helped in discovery of gravitational waves, which was a monumental task in space exploration. A.I robots are also used for the exploration of space.

They performed the required task as commanded. Due to A.I technology, urban planning through satellite observations also occur.

In true essence, A.I technology has explored the space in real manner. Hence, exploring the space is the benefits associated with A.I advancement.

After narrating the benefits of A.I in detail, the upcoming paragraphs will argue for the way forward to overcome the implications of A.I.

The first recommendation in this context is regulating ethical framework through international cooperation. There should be a proper consensus ^{among} over the different countries of the world ^{over} for the effective usage of A.I. For this, build-up of cooperation front is sine-qua-non. Proper global A.I standard and regulation shall be set accordingly. Stringent measures be taken with respect to mitigation of biasness. Responsible and ethical development of A.I is the need of hour. Therefore,

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regulating ethical framework through international cooperation can prevent the harms of A.I.

Moving ahead in the same direction, training programmes for A.I related jobs can curb the harsh impacts of A.I.

People should be trained effectively so that A.I is used responsibly. The culture of lifelong learning shall be promoted for the said purpose.

Upskilling and reskilling shall be adopted for advancing in A.I fields. The people need to be trained, so that they can adapt to the changing job market.

Moreover, it will promote the positive and effective use of A.I technology. Thus, promoting training programmes for A.I related jobs can help in overcoming its perils.

Furthermore, ensuring strict implementation of cyber-security measures can prevent the misuse and overstepping of A.I. In true essence, it will safeguard the personal information. There should be a proper punishment for any kind of a breach in this regard. Similarly, an investment must be done to strengthen data protection laws. Any violation of disclosing or accessing to personal informa-

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-tion shall be treated as high offence.

Respectively, there should be a proper mechanism for its prevention. So, strict implementation of cyber-security measures can limit the misuse of A.I.

The last suggestion to overcome the implications of A.I is to focus on sustainable and human-centric A.I development. More attention should be given to such aspects that augments human capabilities rather than replacing them. Stephen Hawking, an English physicist, cosmologist, and A.I professional, once said, "Computers will overtake humans with A.I within the next 100 years. When that happens, we need to make sure the computers have goals aligned with ours." This shows the sustainable and balanced approach in exploring A.I technology. It is the need of hour to strike a balance between promoting benefits of A.I and mitigating its risks. And this is possible through sustainable development approach towards A.I. Hence, focusing sustainable and human-centric A.I development can cut the overstepping

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of A.I from its ^{exceeding} bounds.

In conclusion, it can be said and accepted that Artificial Intelligence (A.I) has crossed its boundaries in multiple ways. This menace is caused by some reasons. Alongwith this, A.I provides numerous advantages not only to the world but also humanity. However, striking a balance for its effective use is the need of hour to curb its implications. Moving ahead, A.I has overstepped its bounds in various ways like jobs displacement, deep fakes, creation of built-in biased algorithms, autonomous weapons, eroding human skills, and so on. In addition to this, some reasons responsible for this overstepping is quest for economic growth and technological advancement. Besides, as every coin has two sides, A.I too provides numerous benefits which include transformation in medical field, improvement in research and education, revolutionizing transportation, and space exploration. However, there are certain steps which need to be taken to overcome the disastrous impacts of A.I, such as regulating ethical framework through international cooperation; promo-

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-ting training programmes for A.I related jobs ; strict implementation of cyber-security measures , and focus on sustainable and human-centric A.I development . Elon Musk , a futuristic innovator , entrepreneur , and wealthiest personality , said about A.I that , " A.I is a tool that can be used for good or evil . It is up to us to decide how it will be used . " Hence , it is upto the user that for what purpose A.I is to be used . Therefore , regulating its positive use can make the world more prosper , peaceful , and developed , by limiting the harmful use of A.I .
