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Topic: Artificial Intelligence has Overstepped its Bounds

Outline:

1. Introduction

Thesis Statement:

Artificial Intelligence has overstepped its bounds in many ways. However, Artificial Intelligence has really changed dynamic of world and brought revolutionary changes. Despite its benefits, AI has raised serious concerns and posed threats to humans.

2. How Artificial Intelligence has overstepped its bounds

3. Artificial Intelligence has overstepped its bounds in many ways

- a) Formation of autonomous and cyber weapons
- b) Spread of misinformation and AI generated deep fakes
- c) Endangered human jobs
- d) Excessive relying on artificial intelligence

for educational purpose is lethal

e) Use of AI in biotechnology raised serious concerns

4. Artificial Intelligence transforming dynamics of world which are beneficial to world

a) Invention of autonomous and cyber weapons bring states' security to new realm

b) Provide multitude of information on one click and positive use of deepfake.

c) Artificial Intelligence has facilitated humans

d) Revolutionized traditional learning

e) Artificial Intelligence in biotechnology proved beneficial

5. Despite revolutionary changes

Artificial Intelligence is an existential threat to world

a) Few benefits does not prove legality of weapons

b) Generative adversarial networks and deep fake are biggest threat

- c) Millions of human jobs are at risk
- d) Artificial Intelligence failed to inculcate scholarly values in students
- e) Biological weapons pose threats for biowarfare

6- Conclusion

There was a time when a man work for hours to complete his task. Then came a revolutionary change in the form of AI generated machines, robots and softwares. And the work of hours started completing in minutes and seconds. "As Nick Bostrom said machine intelligence is the last intelligence that humanity will ever need to make." Artificial Intelligence is a double edged sword. Its promises and perils are huge and daunting. Critics have differing views whether it

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will undermine human control or it is a step towards human progress. Artificial Intelligence has overstepped its bounds in many way. However, Artificial intelligence has really changed dynamic of world and brought revolutionary changes. Despite its benefits, AI has raised serious concerns and posed threats to humans. Formation of cyber and autonomous weapons, spread of disinformation and AI generated deep fakes manifests how AI has overstepped its bounds. Moreover, AI generated robots and machines endangered human jobs. Use of AI in education and biotechnology also raised serious concerns. Contrarily, AI has done wonders in the field of security, provide multitude of information and ease learning process. It also lessen human burdens.

and revolutionized ~~the~~ medical field. However, all these benefits are full of dangers just like a rose with thorns. It has ~~not~~ not only ~~been~~ increased vulnerability of states security but also has endangered human privacy. AI has eliminated millions of jobs. on the other hand use of AI in bio-technology and education has resulted in dangerous consequences.

The use of artificial intelligence has raised to such an extent which raised serious concerns for humans. It seems to have surpassed its bounds. The invention of autonomous and cyber weapons posed serious threats. AI generated models could misidentify people or objects as targets resulting in unintended death and destruction during conflict. (AI is already at war, Michele A. Flourbaey, 2023) while on the other

hand AI has proved beneficial.
The use of AI helped analysts
predict Russian's invasion of
Ukraine months in advance. [Michele
A. Flournoy, AI is already AI War, 2023] This

depicts its advantage.
The use of artificial intelligence
has changed war policies around
the world. Invention of autonomous
and cyber weapons have serious
consequences. These weapons could
cause enormous destruction. More
over, cyber weapons used to attack
database of countries which has
compromised security. Same in the
way artificially intelligent autonomous
weapons are capable of lethal outcomes.

Furthermore, the spread of
misinformation and AI generated deep
fakes posed serious privacy threats.
Doctored or malicious information based
on propaganda and fake news can
cause terrible harm to morale of

person and nation. False or misleading information about famous personalities used for various political and personal purposes. That side of AI has threatened human privacy.

In addition to this, the use of AI generated robots and softwares in factories and different work places has endangered human jobs. A report by investment bank Goldman Sachs suggested that "AI could replace the equivalent of 300 million full-time jobs across the globe." As a result, unemployment will increase round the globe. The jobs with repetitive tasks are more at risk. However, many administrative, legal, architecture and management roles are at risk.

Moreover, the use of AI in education field is also a debatable topic. Due to lack of foundational knowledge about working of AI, most of students are using

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it blindly for educational purposes. The attitude of students shows the abysmal quality of their education which has failed to inculcate real intellectual and scholarly values in students. Therefore, excessive relying on AI for educational purposes is lethal.

In the field of biotechnology AI has been proved dangerous in many ways. AI technologies in the field of medicine used to produce certain human pathogens which are called as biological weapons. Moreover, the synthesis of artificial DNA has made it possible to increase virulence of already existed pathogens. This DNA also used to produce viruses. AI in the field of biotechnology has potential to harm mankind.

However, despite risks and hazards, Artificial intelligence has proved beneficial. AI plays a substantial role in security of

nations. From a military perspective, lethal autonomous weapons have many advantages over conventional weapons.

They operate accurately with precision and for extended period of time without fatigue and emotional intervention.

In this way, less human workers required to operate them and spare human lives. Moreover, AI developed Rhombus power is being used to help warn officials about the movement of nuclear-armed missiles. (Michele A. Flournoy,

AI is Already at War, 2023]. Intelligence officers used AI to sift through sand of pictures and videos which analyze them in a few seconds. This is how AI has revolutionized security system across the globe.

As far as provision of information is concerned, AI has multitude of information. AI provides not only literary information, but also provide information regarding media, business and social

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technologies. In addition to this AI accumulate huge data, which can be retrieved within an extent.

Being able to collect and process large amounts of data, expanding its capacity to solve problems. Moreover, deepfakes technology can be used for positive purposes. It introduces new methods in film making. Now filmmakers can create virtual sets and backgrounds.

This technology provides greater flexibility, enables filmmakers to change background easily and at low cost. So, AI has facilitated the film industry.

Another beneficial aspect of AI is that it has lessened humans' burden. AI generated robots and machines have capability to perform tasks more precisely and in a blink of eye. AI has augmented human work, jobs and intelligence. According to some experts ^{use of} AI at a larger scale will add as much

as \$15.7 trillion to global economy by 2030. [David De Cremer, AI Augment Human Intelligence, Not replace it, 2021]

AI-based machines are more accurate, fast and result in increase manufacturing. It also changed the working of companies, organizations and resulted in increase service delivery and recruitment.

In this way AI has augmented the human burdens.

If someone believes that use of Artificial Intelligence has rotten students, they undermine the fact how it has benefited the educational field. Dialectical pedagogy using AI, can facilitate, foster personalized and self-paced education. Moreover, teachers can employ responsible human-AI communication. They can create content and do assessments which foster critical thoughts and deep learning. [Nazira, chat GPT dilemma, 2023]

Students could take help from AI generated applications regarding research. AI has eased the access to learning material and provide information according to individual student's needs.

In the field of biotechnology with exception to risk and dangers AI has brought wondrous changes.

In the medical field, AI tools are helping designers improve computational sophistication. For example, "Merantix" is a German company that is using AI tools to enhance precision of computer tomography images. It proved beneficial for deep learning of medical issues. Moreover AI tools are helpful in diagnosis, improved accuracy and predict in advance regarding potential challenges. Genetically modified plants increased the crops yields, which is also a wondrous job of AI. Hence AI has proved beneficial for

developments in the field of biotechnology.

All the arguments citing benefits of AI could not undermine its dangerous outcomes. Though, AI has revolutionized security system round the globe but it has a bleak side. The use of lethal automated weapons could cause massive destruction if go uncontrolled. They can misinterpret targets and would be of immense danger. Moreover, the cyberweapons increased the vulnerability of states' security. With the use of cyberweapons, the sensitive data of a state could be stolen which could cause immense loss. There are many examples in history when cyber attacks shattered the security of states. "Stuxnet was first cyber weapon, which destroyed 20% of centrifuges Iran used to create its nuclear arsenal in 2010." Furthermore, "China hacked 21.5 million employee records, stealing information from

U.S. office of personal management.

[Fortinet.com, History of cyber warfare]. Hence, it is proved that despite revolutionary effects, Artificial Intelligence has increased vulnerability in security realm.

As far as the multitude of information and deepfake technology is concerned, the negative use of deepfakes has undermined its positive effects. AI-generated deepfakes used to create fake hate speech, misinformation that could unleash widespread violence. A torrent of false or misleading information has flooded social media platforms during the Israel-Hamas war. Images of atrocities and mass death, are shared so widely that their sources are impossible to trace. BBC journalist Shayan Sardarizadeh said the volume of misinformation ~~was~~ on 'x' was beyond imagination. He also tracked down dozens of fake claims. Same thing happened during "Rohingya Genocide" when hate

speech incited violence. So, it is proved, how the spread of fake news and deep fakes could trigger violence and develop mistrust between public and armed forces.

The arguments citing benefits of AI generated machines and robots neglect its negative consequences on humans. Elon Musk predicted that with convergence of AI and robots millions of jobs would disappear. AI use in film industry also endangered jobs of actors. As 160,000 people associated with American films struck against erosion of their rights brought about by rise of AI and new media. Another example of the use of 3D printers will leave undeniable impact on manufacturing sectors. It will crush global supply chains, transportation network and a loss of 12 trillion dollars to global manufacturing sector. [Hafiz]

Abdul mejeed, Two sides of AI coin, 2023

Hence it proved that surge in the use of Artificial Intelligence is a looming risk to human jobs.

As far as the arguments in the favour of use of AI in education is concerned. As it is said earlier, AI is a two edged sword alongwith benefits it also brings dangers. The use of AI in education resulted in the rise of ~~plag~~ production of plagiarised articles. Moreover, digital cheating have become hard to track down. Chat GPT have made students shirk employing their imaginations in easy creative talks. It will further tattered writing expertise of our students. Hence, the more dependance on Artificial Intelligence for educational purposes would ~~not~~ only deprive students of their intellectual abilitise but also would ~~cause~~ cause serious

implications to states in many ways.

In the field of biotechnology Artificial Intelligence has did wonders but it has also expanded its bounds. The invention of biological weapons pose threats for bio warfare. These weapons are designed to spread diseases among people, animals and plants by introducing micro-organisms. Moreover, different highly virulent strains of bacteria and viruses can be synthesized using AI technology. According to historians "Benny Moris" and "Benjamin Kedar", Israel conducted a biological warfare operation codenamed "Cast Thy Bread" during Arab-Israel war 1948.

Hence, this proved that AI technologies pose existential threats to humanity and also a source of Bio-terrorism.

In summation, the expansion of Artificial Intelligence has

really raised serious concerns for humans and it is an existential threat to humanity. Although it has revolutionized world in all fields but its dangers outweighed its benefits. AI has increased vulnerability of national security, also have political implications. It could impact global economy, industries, global work force. Moreover, looming threat of bio warfare is also hanging over heads. It would be appropriate to say it is a ticking time bomb, having a risk of imminent explosion. However, with strict implication of rules and usage terms and sensible ^{use} of AI would be revolutionary. As someone said that "predicting the future is not magic its Artificial Intelligence"