

Artificial Intelligence and global security: Ethical challenges and risks

Outline:

Improve sentence structure and punctuation

Address the knowledge gap

## 1. Introduction:

1.1 Hook

1.2 Background information

1.3 Thesis statement: AI has revolutionized ~~the~~ every aspect of human life. In the same way, it has posed ethical challenges and risks in the field of intelligence, defence, military and cyber-security.

## 2. Relation between Artificial Intelligence and Global Security:

### 3. Ethical challenges posed by AI in Global Security:

3.1 Building trust in humans in the use of AI

3.2 AI human interface - new professionals are required

3.3 Hesitation in investing in AI

3.4 Software malfunctions cause disruption in operations

- 3.5 Breaching of Data security
- 3.6 Scarcity of Quality Data

#### 4. Risks posed by AI in the Global Security:

4.1 Development of Autonomous weapon systems

4.2 Enhancement of cyber-warfare

4.3 Erosion of surveillance and privacy

4.4 Increase of arms race and destabilization of a country.

4.5 Increase in asymmetric warfare and non-state actors

4.6 Ethical and legal implications

These are two opposite words, cannot fit in the same argument.

#### 5. Conclusion:

Suggest remedial measures as well

## The Essay:

As it has been rightly said by Oren Etzioni that AI is a tool. The choice about how it gets deployed is ours. So this age of AI has brought about significant challenges in the fields of intelligence, defense, military and cyber-security. In the same fashion AI has also revolutionised many aspects of the human life. It is totally upto us about how to take the AI. In the profotation of AI worldwide there arose significant challenges in the building of trust in humans about its usage, increase in AI and human interface, hesitation in investing in AI and software malfunctions. These challenges give birth to risks like with the use of AI there witnessed a development in autonomous weapon system, enhance ment in cyber warfare and increase in asymetrical warfare and non-state actors.

AI in the recent years combined with the technologies scalability and convergence with other domains have prompted number

~~and~~ concerns about the risks of AI in the global security including the erosion of surveillance and privacy, increase in the arms race and resultant destabilization of a country. The above examples clearly identifies the risks and challenges posed by the AI in the global security.

Avoid using first nouns

Firstly, ~~we~~ will discuss the challenges posed by AI in the global security. The foremost challenge is building trust about AI in its use. ~~As~~ AI is the product of twenty first century and this technology is naive to many of its users. In addition to its novelty there exists a digital illiteracy. According to the reports of World Bank only 63% of the world population has access to the internet. ~~When~~ people even heard firstly about the AI and even more they some of the world population have not any access to it then people will hesitate in adopting the AI. which is a challenge in front of AI.

The second challenge confronting AI is the AI human interface. As AI is a new technology and developing more and more rapidly and changing it forms, there is also an increase in the industries related to AI like car manufacturing is one of them. These new industries require, AI professionals at faster pace but the number of AI professionals worldwide are less as compared to demand. This resulted in the shortage of AI workers. However, by keeping in view the above challenge various universities have started professional degrees in the world to compensate this demand. However, at present this is a major challenge confronting AI.

The third challenge in front of AI is many businessmen are hesitating in investing the AI. There is trend worldwide to adopt a business whose expansion and making profit are viable and devoid of any risk. However,

AI is confronting many many risks starting from its usage to investing in this giant. They are fearful about the risks. Like Brazil and North Korea are devising strategies to ban AI in the country. By keeping in view the above step the businessmen are likely to divest from it. In addition to this, the use of AI in the wars have caused major destruction not only to human life but also infrastructure. This is evident in the 'project Nimbus' which the Israel has signed with Google and Amazon and caused havoc in Palestine especially Gaza and West Bank.

The fourth challenge confronting AI is the malfunctions in the operations of AI. As the AI is composed and developed by algorithms which is vulnerable to malfunction. Furthermore, there exist not any control room for regulating the AI which leads to the malfunctions of AI in its operations. In addition to this

AI has limited knowledge about the history. Any action prompted about the history comes null and void or sometimes irrelevant. Furthermore, the usage of AI in the decisions making involving human emotions comes irrelevant. This is because the AI is devoid of any emotions and lacks cognitive skills. By keeping in view the above points, AI is facing a malfunction in its operations.

The fifth challenge confronting AI is the breaching of data. In the cyber security AI can be used for the offensive and defensive purposes. In the case of former purpose many softwares have been developed which can easily breach the sensitive data. Recently, NASA has extended his good willings to a hacker who has hacked the programming of NASA. Thus, AI is confronting major security threat in the field of communication also. Recent destruction of papers in Lebanon by the Assad is a major example of breaching of data.

The sixth challenge confronting AI is the scarcity of quality data uploaded on the net. As AI is derivative of data collected from the Google, Facebook and major social media platforms. The data on these platforms is mainly dependent on the likeliness and dislikeliness of a user. Thus, the best of data driven for the AI is human prompted and are devoid of any authentic source. In this way AI is devoid of quality data which is important for the quality research and finding.

These are the challenges posed by AI in the global security like building trust in humans, AI human interface, hesitation in investment, software malfunctions, data breaching and scarcity of quality data. Now, in the next section we will discuss the risks posed by AI in the global security.



Firstly, the risk posed by the AI is development of autonomous weapon systems. These weapons are operated without any presence of human beings. In the ancient times war were being fought physically and with the use of tactical weapons. These weapons not only cause the loss of life but also the loss of the infantry. However, the AI has replaced these systems of warfare with the autonomous weapon systems. The recent manifestation of this is the use of AI technology by Israel in Gaza war. 'Where is the Daddy' is a cloud storage used by the Israel to locate the residence of families and to target them. Therefore, development of autonomous weapon system is a major risk.

Secondly, the risk posed by the AI is the enhancement of cyber-warfare. In this age of AI every country is trying its best and striving major incomes in becoming a hegemon.

in the field of AI. Recent example is of USA, he has budgeted \$68n for the enhancement of AI. Same is the case with the China. Not only the countries are investing in the AI but also the business tycoons are investing in it. Recently, the major example is the building of Nawaz Sharif IT hub for the students and this was being invested by the business tycoons worldwide. This has posed and created a war-like situation in the cyber-space. Every country is trying to take a lead in this arena.

Thirdly, the risk posed by AI is the erosion of surveillance and privacy. There has developed such softwares which can easily breach the privacy of the user. The recent manifestation in this regard is the installation of firewall in Pakistan a - surveillance technology from the China. This is posing a serious threat in the privacy of the user. Furthermore, this

breach of privacy is further evident in the cloud storage of AI. This cloud storage provided to the AI by Google and various social media platforms are mainly based on the personal information of user which is being sold to authorities for unlawful purposes.

Fourthly, the risks created by AI in the global security is the increase in arms race and destabilization of a country. Every country wants to lead the world in the use, manufacturing and supply of sophisticated weapons. These weapons are using the AI. The most prominent manifestation is the AI lead robots used to surveil the borders. This technology is developed by AI USA and also sold to India thus creating the arms race between India and Pakistan leading to potential threat of war between India and Pakistan. This situation leads to the destabilization of a country leading to a chaos in the region.

Fifthly, the major risk posed by AI in the global security is there witnessed an increase in the asymmetric warfare and the role of non-state actors. When one country takes a lead in AI then it tries to use this technology against the periphery countries to maintain the world order. In addition to this there witnessed an increase in the involvement of non-state actors like NGOs, business tycoons and proxies in the state affairs. These proxies use the AI for their own malign targets against the state. Thus, posing a risk for that country.

Sixthly, there exists a risk posed by AI have legal and ethical implications. AI is totally machine based model and thus devoid of accountability for any violation. In addition to this, AI is not keeping in considerations of human rights while operating. Furthermore,

there exists not only accountability to be held accountable for the breach of law. Therefore, many countries including EU has devised rules and regulations for the ethical use of AI.

To conclude, AI is posing major risks and challenges to the global security. Challenges range from the AI human interface, hesitation in investing, software malfunctions to the breach of privacy. These challenges are the precursors of risks to the global security. Risks include development of autonomous weapon system, enhancement of cyber warfare, erosion of privacy, increase in arms race and last but not least ethical and legal implications. However, certain policy measures are needed to combat these risks and make the AI a positive game-changer for the world.