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Date 20-sep-23

"Artificial Intelligence; its
promise and perils"

Outline

1: Thesis statement: The evolution of Artificial Intelligence has brought a paradigm shift in socio-cultural-political and economic spheres; however, it may have its own virtues and perils over humanity which must be taken into account.

2.1: Definition and types of AI

2.2: Current happenings

3: Supporting arguments:

3.1: Promises of AI

① It can revolutionize educational system for teachers and learners

case in point: Khanmigo AI bot

② Artificial ^{-Intelligence} can aggrandize the efficiency and productivity of agricultural sector.

Case in point: Israel's smart agriculture

③ Artificial Intelligence can help reduce climate risk by detecting early signs/risk.

Case in point: California - fire fighters use of Artificial Intelligence

④ Artificial Intelligence could revolutionize medical sphere by enabling faster and more accurate diagnosis of disease

Case in point: American medical researchers report

3.2: Perils of Artificial Intelligence

① Artificial Intelligence could lead to cognitive capitalism

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Case in point: Replacing humans with smart bots.

② Artificial Intelligence could become a tool for hybrid warfare.

Case in point: American accusation on China for propaganda.

③ It could pave the way for advancement of arms and race between arms companies.

Case in point: The use of smart drones in Russian-Ukraine war.

4: Possible remedies to divert Artificial Intelligence for good.

4.1: International law pertaining threats of Artificial Intelligence.

4.2: Democratization of Artificial Intelligence.

4.3: Utilize for climate catastrophe impediments.

4.4: Fundings for adaptation for poor countries

4.5: Revolutionize agricultural sector

4.6: Sensitizing populace about the Artificial Intelligence.

5: Conclusion:

The realization of ignorance is the first fact of knowing (Jean Toomer)

"Artificial Intelligence: its promise and perils"

In the age of information, ignorance is a choice (Donald Miller)

The intrinsic curiosity of mortals has pushed towards unfolding many revolutions. Each era encapsulates its own virtues and perils. The evolution of Artificial Intelligence

could become

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has brought a paradigm shift in socio-cultural-political-economic spheres; however, it may have its own virtue / promise and possible ones to humanity which must be taken into account. Each coin has two sides.

The two sides of a picture is rational and real. In fact, Artificial Intelligence may have two folded impacts. The promises of Artificial Intelligence can be encompassed in following manner.

Initially, Artificial ^{intelligence} could help with the democratization of technologies to ensure quality education for children around the world.

Secondly, the growing population and food scarcity is a real threat. Through Artificial Intelligence, the productivity and efficiency of agricultural sectors can be ensured.

Besides, Artificial Intelligence can help cope with disasters caused by climate change. Similarly, it could improve medical domain with easily diagnosis of disease.

However, in retrospect, it could have not so encouraging effect too. Following

one negative outcome of Artificial Intelligence. Initially, it would surely lead global market towards cognitive capitalism - causing unemployment. Secondly, Artificial Intelligence could be used as a tool for hybrid warfare. Lastly, it could lead to another arms race in the field of smart weaponry system. Taking into account all the possibilities, global leaders must take calculated decisions.

Artificial Intelligence is a branch of computer science that generates results that is deemed to be intelligent. This includes problem solving, language learning and decision making. Artificial Intelligence has many types. Such that Generative AI, language AI, AI used in space programmes and other organizations. Charles Darwin in his book, "The origin of species" rejected human exceptionalism. He argued that machines are more capable than humans. He presented the fourth

and Fifth Industrial Revolution that introduced technologies and enhanced production. The automation of industries proved more promising than human skills. Currently, Artificial Intelligence is also on the path of revolution. In the first phase, it was only used by website and companies for suggesting content and items. In the second, current phase, it has acquired cognitive skills recently limited to human domains.

Each revolution changes the status quo system in leap and fold. Technological advancement penetrated in all spheres of human existence carrying two sides of the picture. Same pattern is unfolding in terms of Artificial Intelligence. The introduction of ChatGPT in November 2022 for public use was a game changer. A web with such intelligence fascinated people around the world. It could solve the problem, make decision and suggest. With advent of this revolution,

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a new debate erupted among the scholars, political leaders and pedagogues. Public domain is also actively participating in this debate. The initial stage of Artificial Intelligence has proved to be effective. However, many argue that it could have negative impact over course of years. Perhaps it is too early to comment on any side. Yet, human nature of adaptability could make it more useful.

Artificial Intelligence can revolutionize educational system for teachers and learners. With each technological introduction, education had to be adaptive to teach the children about that. The sensitization of Artificial Intelligence has thus become incumbent. It could become a tool for easy learning. Most of the time, students face difficulty understanding complicated topics. Lack of means of easy learning make it difficult for them to participate.

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On the other hand, quality education has become a luxury available to only few. Most Artificial Intelligence could serve as a saviour by working as a personal tutor. Artificial

Intelligence has the capability to present the topic in simplest form. It would thus make ^{education} not easy but also accessible to all.

Similarly, teachers can use Artificial Intelligence to adopt smart methods of teaching and seeking student attention. One educational site that is devotedly on educational sphere of Artificial Intelligence is Khanmigo by Khan Academy.

Artificial Intelligence can aggrandize the efficiency and productivity of agricultural sectors. The changing pattern of seasons has made it unpredictable to take the next step. Currently, the world is in distress owing to food scarcity. According to recent report of Unesco, around 400 million people are affected by

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Severe food scarcity - More than 800 million people have no access to nutritious food. South African and African countries are among the least of food secured countries. The growing population is even making the matter worst. Artificial Intelligence could be used to analyze weather pattern, soil condition and crop genetics. An example of Artificial Intelligence is Israel's agricultural sector. The occupied area is not much yet it grows enough crop to meet the population's need. It could help in crop production and resource management. Collectively, the food production would be increased exponentially.

Artificial Intelligence can help reduce climate risk by detecting early risks. Climate change has led to severe patterns of weather causing catastrophes. Increasing floods in one area and droughts in others have become a norm. Wild fire, rising sea level and

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however, all have become threat to human existence. Artificial Intelligence could change the face on two folds. By analysing changing patterns and early warning to departments of concerned area for early measures. On the other hand it can install smart technologies with intelligence to minimize the impacts. An example worth articulating is the use of smart drones by California fire-fighters to detect early signs of fire and inform the department. In the month of August around 4am, the smart drone detected a small fire and informed, thus preventing a big incident. Artificial Intelligence could also be used to control GHG emissions from industries. Collectively, such approaches would help with adaptability towards changing climate patterns.

Artificial Intelligence could revolutionize medical sphere by enabling faster and more accurate diagnosis of disease.

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In the beginning of this September, there was an optimistic news of impact of Artificial Intelligence. In New York, AI helped detect early signs of cancer in a female.

The New York Department of Health revealed that the cases assigned through Artificial Intelligence - about 80 percent was accurate. In recent past, disease diagnoses was not possible in early stage. Such that, cancer, cardiovascular and neurological disorders. However, now the researchers have smart access to smart tech which could help in more efficient and accurate diagnosis, manufacture potent and efficient drug and cheap availability of medicines and treatment.

Under the optimistic circumstances it could also pave the way for finding treatment of diseases, such that AIDS and HIV.

Amalgamating medical spheres through Artificial Intelligence would be an exemplary achievement and hope for our country.

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Artificial Intelligence could lead to cognitive capitalism. Human capital serves as the backbone for the development of a country. States strive to equip its masses with necessary skills to compete in global markets. It is argued that Artificial Intelligence would reduce employment - which is true to some extent. However, employment would be replaced by those equipped with Artificial Intelligence skills not Artificial Intelligence itself. Developed countries already on the way of training their human capital in changing dynamics. However, developing or underdeveloped countries do not have access to even basic technological skills let alone AI skills. This creates a milieu of cognitive capitalism where only advanced skilled strata would secure employment while others would be deprived. In retrospect, the widening gap between global North and global South and the rich and the poor.

Intelligence could become a serious. -It could improve the learning outcomes of students. -It could become a serious. -It could improve the learning outcomes of students.

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Artificial Intelligence could become a tool for hybrid warfare. Recently Microsoft has accessed China of propaganda ahead of coming elections. The Chinese government refused. Obviously, it creates the milieu of waxy regarding accurate information. Generative AI - a branch of AI - has the capacity to generate videos, texts and pictures. One just needs to put descriptions. Under the guise of easy availability, it could be used as a hybrid tool. The use and control of social media platform have already played its role in several election in so-called revolution. The possible outcome could be devastating. It could be used to ignite extremism or radicalism. It can also be used against a state institution or even evoke rebellion. All these could lead to political unrest and security concerns. Similarly, non-state actors could also opt the technology

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causing threat to global arena.
- In the end, none of the incidents would be encouraging.

It could pave the way for advancement of arms and race between arms companies. Globally, super powers are competing to develop and deploy lethal and autonomous weapon systems. This turns Artificial Intelligence more into a political than technological enterprise.

The advanced weapons used in Russian-Ukraine war is an example. Ukrainian soldiers are using smart weaponries to deal with a more powerful counterpart.

An example of such autonomous weapon is the Artificially advanced drones developed by Israeli arms companies. They called the drone, "hit and run" weapon. Once the target is located, the drone attacks the direct directly and explode. There are multiple such examples. On the other hand, arms companies deem this an opportunity to earn profit. Non-

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state actors could also have access of lethal and smart weapons from for-profit arms industries. Resultantly, the wars become prolonged and the victim range gets wider as AI cannot discriminate between combatants and non-combatants.

The vice and virtues are inseparable from any sphere. Humans have had to make calculated effort to limit the vice and exponentiate the virtues. For the outcome, following measures are cardinal. Initially, the growing use of Artificial Intelligence has become a threat for privacy of individuals. For the reason, global organizations must pass a resolution for privacy and security of populace. Secondly, we must strive for democratization of Artificial Intelligence - availability and accessibility to each country equitably. Besides, we need to inculcate the use of Artificial

vastly to tackle with the threat and devastation of climate change. On the other hand, there must be fund allocation for the development of smart technologies for decreasing inequalities to minimize disparity. Similarly, we are in dire need to adopt Artificial Intelligence in agricultural sector to cope with the threat of food scarcity. Any ignorance for food security could result in huge loss of human lives. ~~fastly~~ the government at local and global level need to sensitize the population about the basics of Artificial Intelligence. It would help in preparing them to cope with misinformation and disinformation. Such measures would prove to be effective in security, accessibility and adaptability of Artificial Intelligence as better.

The realization of ignorance is the first act of knowing. The world is fast changing in terms of economy, politics, technology and relations. Each state strives to adapt accordingly to ensure its independence, integrity and development. Our counterpart - India - is fast moving with the pace of advancement. However, we are occupied in the quagmire of internal turmoil. The mystery of economic, political and sociological have crushed any hope for improvement. The obsolete curricula of education is teaching children not to be innovators but to be conformers. The economy has become the nightmare for our populace. However, we are still occupied with the membrane of ignorance. The global debate of Artificial Intelligence has no pertinency with our national problems. We need to specify our priority to ameliorate the conditions. For that Artificial

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Intelligence could become a serious. It could improve the learning outcome of students making more prone to innovation, creativity and cognitive. The corrupt institutions could be replaced with the help of smart track of resources. Our industries could run efficiently. This has become a critical juncture to change our fate. For the cause, we need a visionary leader fully equipped with the understanding of importance of technological advancement. By equipping our 70 percent population, we could run the pace of development. Advancement is the only hope for our country. Even Allah Almighty tells in Quran in Surah Baqarah that, "Allah does not change the condition of those who do not change their own condition. Thus, we need now a whole-of-nation approach to heed our guidance."