

Ramnal Ijaz - RWP-44

Topic: Artificial Intelligence: its promise and perils

## OUTLINE

### 1. Introduction

**Thesis Statement:** Artificial Intelligence has emerged as a doctrine which has to be dealt by the world efficiently. The immense power AI possesses is an opportunity as well as a challenge to the world. One has to sound enough in order to counter AI well.

### 2. Challenges and Opportunities of Artificial Intelligence

#### 3. What are the challenges brought by AI

- a. Privacy of individuals; A potential victim of AI.
- b. Existential threat to humanity: Replacement of humans with robots
- c. Artificial Intelligence considered a short sighted approach in the Education world.
- d. Increase in chemical weapons
- e. Genetic editing of humans is a serious threat in political and social aspects.
- f. Lack of transparency in AI
- g. AI: making the world vulnerable to cyber attacks
- h. Artificial Intelligence is an ethical dilemma.

#### 4. Potential promises of AI

- a. Role of artificial intelligence in preserving climate
- b. Modern world problems; AI a modern solution to them.
- c. AI a large language model.
- d. Artificial Intelligence reshaping the world of healthcare
- e. Marshall McLuhan's Global Village via AI

5. Way forward to a better world with AI as a component of it.

- a. One should not exploit the technological advancements.
- b. AI vesses human mind ; Better reliance on EI.
- c. Minimizing technological dependency.
- d. Making use of AI as a tool of advancement and development only.

6. Conclusion

### ESSAY

"With great power comes great responsibility" - A famous and renowned quote by Stan Lee describes the importance and worth of power. Power in any form can be seen as well as compared with a coin i.e. having two sides. One must be aware of the kind of power being possessed as this will eventually make the responsibilities and consequences evident. AI is also a power that has appeared on the face of world long ago. Its roots are linked with Alan Turing's machine test back in 1950s but with time, the advancement in the field of science and technology has evolved AI as well. Artificial intelligence is perceived as an opportunity as well as ~~an~~ <sup>124</sup> threat in many ways that depends largely on its use. The challenges sometimes outnumber the positive impacts of AI as power in any case is often seen being exploited and misused by the world largely. While

talking about the promising abilities of AI, it should be noted that it can lead a world towards massive development and advancement in any field ranging from economic, agriculture, climate preservation, health-care to autonomous vehicles and research areas. ~~likewise~~, contrary to it, the consequences like privacy invasion, replacement of human minds with robotics, vulnerability of cyber attacks along with increase in mass destruction are largely observed. One has to be capable enough of both the pictures of AI in order to prepare before hand to tackle the forthcoming results efficiently.

The role of AI in the development and betterment of a country cannot be neglected. But at the same time the risks and red flags it put forth are to be considered as well. The rapid advancement in adoption of this technological power in the current world has raised so many concerns. (What are the perils and promises of AI?, The National Interest, July 2023). Its pro and cons are ~~constantly~~ acting as a balance of power by deterring each other quite efficiently.

Privacy has always been an issue even in the world where AI wasn't present, this concern was in the limelight since beginning. AI produces privacy concerns due to its ability of generating sensitive and private information that too accurately. There's a major lagging in interpreting and understanding the concept power when it comes to

Its use. AI victimizes the privacy and private data of individuals by being misused which further leads to problems at major levels by mishandling the data retrieved (Generative AI and its impact on Privacy Issues, Datagrail, May 2023). Therefore, Artificial intelligence is a root cause of suspicious activities these days.

With privacy issues, AI has brought about existential threats along which are replacing humans with robots. This is leading towards humans extinction in near future in various fields of life becoming a root cause of unemployment and hardships in human survival rate. AI isn't likely to enslave human beings and humanity but its going to take over many aspects of life. (Artificial Intelligence, Scientific America, July 2023). Nevertheless, crippling human abilities and minds, its rising highly.

Artificial Intelligence is perceived as a narrow sighted approach when it comes to the world of Education departments. Almost all AI-powered apps contain the chatbots and recent phenomena of ChatGPT which is being adopted largely by youth and students in particular the wholeheartedly acceptance of these power and intelligen based bots has led to the world lacking foundational know how about facts and figures related to academic. Furthermore, this is increasing dependency on technology that is itself a threat to future world in terms of productive and competent generation. (Ayed Halis Nowaz, AI and education, Sept 2023). This simplifies that no matter

what the power is, it cannot beat the human brain and intellectual capability.

The dual use of Artificial Intelligence has led to the powered drug discovery which has been a mass destructive element itself, leaving behind the biological weapons and producing chemical weapons that too 40,000 in about six hours while discovering the usages of drugs in a pharmaceutical industry. This brought about the catastrophic effects and implications of AI. This proves the idea here that even a slight twist in any process can lead to drastic changes.

AI being a double edged sword depicts its powers in the field of genetics and gene mutilation. The advances that have led to choose the sexes along with producing a test tube baby can cause serious social and political threats as they possess a different mind. Scaremongers claim that genetically engineered humans might develop different approaches to worldly affairs than normal humans. Therefore, this states ~~that~~ by making it evident that the ~~world~~ already challenged world might face more challenges in the near future with the rapid adoption of AI in any field of life.

The lack of transparency of Artificial Intelligence tool is a debatable topic under consideration. Artificial intelligence is a manmade power that cannot & rather can never possess human like abilities and

approaches. Its decisions are not always ~~intely~~ intelligible to humans as it lacks neutrality and its decisions are susceptible to inaccuracies, embedded biasness and discriminatory outcomes. One can use artificial or particularly manmade power to facilitate humans but one should never ~~ex~~ compare the two (UNESCO).

This further leads to the concept of ethical dilemma where one cannot fully trust the decisions and outcomes of Artificial Intelligence. Primary ethical dilemmas revolve around the concept of biases and one sided approach as it is fed by some sorts of commands. Being able to prone to crisis and unable to manage the situation on its own, the total reliance of AI should be considered as a wrong approach. Therefore, man power can only be facilitated through machines and ~~no~~ replacing it with machines leads to chronic issues of concerns.

Furthermore, the rise in cyber crimes and cyber security issues is also being linked with the power of Artificial Intelligence in the current world. With AI, considerable amounts of increase in cyber attacks has been witnessed so far. Artificial intelligence is making it easy for the hackers, as well as intelligence organizations to access anyone from anywhere (ITU) at. The hybrid war of India against Pakistan is also a consequence of Artificial Intelligence with which

India successfully feeding the minds of masses and developing a full-fledge radical reform. Thus, AI makes the world even more vulnerable to cyber attacks with its outreach and massive approach.

Contrary to this, the other side of the coin can never be ignored. With the rise of serious environmental threats and climate degradation, Artificial Intelligence is playing its role in saving the green cover of the planet. widely and openly adopted technology of AI has ~~made~~ transformed the world inside the research and technical laboratories. likewise, AI has saved the further contamination of rivers in United Kingdom where hundreds of sewage leaks had been detected successfully by Artificial Intelligence (The journal Clean Water, 2021). Hence, an efficient role is being played by AI to save the future of world by <sup>preventing</sup> further deterioration.

It has always been into discussion that modern problems require modern solution as sometimes the old age-techniques aren't being helpful in the modern crisis management. For this, Artificial Intelligence is truly a modern solution towards economic stability of states worldwide (World Bank, 2018). Automated system, a balanced record of all the data, calculated approaches and fast data entry system with search and find options has made the economic computerized system efficient and active. Therefore, the world economically structure should make use of AI in their system.

Among many other advancements in Artificial Intelligence its LLM ~~model~~ i.e. Large language model has been the fastest growing consumer application, achieving 100 million users in two months (The Guardian Statistics). This potential acceptance is mainly due to adaptive as well as autonomous nature of AI that is reshaping the world around the globe. This phenomena can be well understood by the social learning theory of sociology which creates linkage between the socialization (adoption phenomena) and its implications on development. However, AI is changing world dynamics with its developmental nature.

likewise, the wings of AI have touched the field of healthcare and medical science as well. AI has encompassed its area and made better changes. Artificial Intelligence has not only reshaped the techniques of tests and laboratories but have brought about revolutionary changes in predicting and analysing the diseases, minor and least approached issues detections and generating more reliable reports (National Institute of Health, 2019). Therefore, AI is considered as a potential too in the healthcare studies as well.

Zooming in further, Artificial Intelligence also umbrella's Marshal McLuhan's term of Global Village by further bridging the gaps ~~between~~ and shrinking the distances. Artificial Intelligence has proved its worth in transportation as well. It is the



driving force behind autonomous vehicles and trackers installed in vehicles. to analyze the techniques used to drive a car by working on human brain mechanism (American Institute of Physics). Thus, with other technological cooperation where world ~~was~~ become a global village, Artificial Intelligence has played its part too.

In order to balance the two sides of the same aspect, one has to be wise enough towards the rational choice of do's and don'ts. One has to believe that the advancements and developments in the fields of science, arts and technology are made just to facilitate the masses and make the world a better place to live in. In response to this, efficient, effective and moderate use of power should be ~~being~~ made the part of everyday life. As the excess of every thing is dangerous, same is the case with such powerful discoveries.

Similarly, in a world full of choices and options only rational decisions based on sound interpretation, examination and analysis would benefit at large. Since manmade gadgets and powerful discoveries lack emotional intelligence, therefore they should never be peddled over human minds. The war of AI versus EI has brought many stances and schools of thoughts but one should never underestimate the power of human intelligence and intellectual abilities. AI can be fed

and taught as well whereas EI is a critical skill that is possessed by humans only (Sameah Qureshi, AI verses EI, May 2023). Hence, AI can excel at tasks but lack the ability to empathize like humans.

The increased dependency on artificial intelligence is not a recent phenomena. Stephen Hawking has warned long ago on its dependence saying "AI could spell the end of the human race". This clarifies how dangerously AI can attack the existence and engagement of humans around. One has to be mindful regarding the usage of AI. The over dependency is furthermore crippled human brains which is indeed alarming for the world preservation. Therefore, it is always a wise approach to only utilize AI and other powerful tools for facilitation purpose only and not for total reliance. Moreover, AI being a huge power should be possessed and utilized in positive aspects only in order to meet the worldly sake of development and stability. One should consider the opportunities such tools bring along rather than focusing on their radical aspects. Artificial Intelligence has proved its worth in various fields like health, education, social and economical aspects, this should be made into use for fruitful outcomes that can benefit the society as a whole. The changing world order and multipolar regimes has demanded the efficient approaches across the globe to meet the world demands.

Shakespeare:

In a nutshell, <sup>thinking</sup> ~~usage~~ "Nothing is good or bad but it's <sup>is</sup> makes it so." Artificial Intelligence itself is a revolutionary tool that encompasses dynamic and evolutionary powers that ~~can~~ <sup>is</sup> make the world a different place to live in by changing its prospects and directions. Artificial Intelligence is not just working to solve the modern world problems but also making and creating world stability at several different aspects. Likewise, where the effective and efficient use of powers can lead to development<sup>ent</sup> at the same time abuse of such powers can bring drastic outcomes that can be proven to be catastrophic in nature. Thus, like two sides of a coin - the different aspects <sup>and</sup> angles of Artificial Intelligence are leading <sup>the world</sup> ~~the world~~ towards two extremes.   
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