

Topic:

HoJ: Its Promises & Perils

Date 20
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Outline:

1. Introduction

Thesis Statement: Machine that works like human brain; this idea is ~~both~~ welcomed and faced with skepticism, simultaneously. A.I. promises to tackle multiple man-made problems, in almost all spheres. Albeit, everything comes with a cost.

2. An insight into the A.I. world.

3. Promises made by A.I.:

A. A.I. in the education sector:

a. Better concept based learning.

b. Access and ease of use.

c. Promotion of the A.I. skill based learning.

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B. A.I: a tool in the climate change tool box:

- a. Early warning system.
- b. Decrease in the carbon combustion.
- c. Increase in the crop yield.
- d. Disaster management.

C. A.I in the health sector:

- a. Consultation during emergencies.
- b. Fill in the vacuum created by the shortage of doctor.
- c. Robotic surgeries and less human error.

D. Industrial Sector and A.I:

- a. Smart buildings.
- b. Decrease in energy and water consumption.
- c. Error detection.

E. A.I. and creative skills:

a. Music ruled by A.I.

b. A.I.: the future author

c. Graphic designing by A.I.

4. Perils of A.I.:

A. Tech based new world order.

B. No ethical policies related to A.I.

C. Job threat created by A.I.

D. Environmental cost of A.I.

E. A.I. biases and Nepotism.

F. A.I. as a threat to democracy.

5. Wayforward:

A. A globally binding ethical policy for A.I.

B. Preparation and Awareness.

C. Legitimization of A.I.

D. More transparency by the tech company.

6. Conclusion.

Artificial intelligence is neither good, nor evil. It is a tool for us to use (Ornstein). The concept of A.I. and its incorporation within our lives was a naive idea up until the ChatGPT. When Open-AI introduced the application, people were awestruck by the capabilities of it. From writing a song, a book, to creating deep fakes or any kind of graphic designing. It was followed by the release of more updated versions. The release of this application evoked the on-going debate about A.I. There are many protagonists of the technology. The pro-AI intellects debate about the A.I. that it would be an essential part of people's lives; and is certainly inevitable. They shift the negative approach towards

it by saying that it is a ^{mere} lack of awareness. They shed light over its efficiency to tackle climate change, to solve crimes, to decrease human burden. They put a stop on the debate by saying that it would require human assistance in every step. The anti-AI debates on the other hand think that the pace that AI is moving is what they are afraid of. Although, like every new technology AI has good and bad, and it is to us humans, that how we use it. There are many promises made by the AI developers, that it is going to address all the issues of almost every sector; In health, it would be used during emergency consultations, and it can fill the vacuum created by shortage of doctors; and it can also be

used during critical surgeries. Similarly, the wings of A.I would be spreaded in the education sector, agricultural sector, industrial sector, to tackle climate change, and during disaster management etc. Alongwith that, there are many drawbacks associated with it as well. It poses the threat to take over jobs, mis-used during politics, it can cause a threat to democracy, it has biases associated to it, and most important and worrisome is the lack of transparency by the tech developer, and absence of any ethical regulations. In a nutshell, the idea of machine that works like human brain, is both welcomed and faced with skepticism, simultaneously. A.I promise to tackle multiple human-made problems in all spheres. Albeit, everything comes with a cost.

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The idea of Artificial intelligence in simplest term is machines/computers that think and work like humans. A.I is everywhere, the applications, the social media, the traffic lights, the surveillance camera, GPS system, or simply anything and everything that is in human use. This is not mere a program; it has capability to enhance and update itself — Machine learning system. A.I is sub-divided into three types: Narrow A.I, General A.I, and Super A.I. The A.I that we use today is the Narrow type A.I. Almost, everyone is on board with this type. The skepticism is about the other two types. There are many re-knowned names of high intellects that those have shown concerns. Stephen Hawking predicted the A.I would exceed

human intelligence, and would be the reason of the extinction of mankind. This quote reminds the lay-man of terminator or any such movie that has given insight into future. It is expected that in a few decades robots are going to roam around us. But, this is also important that all of the robo machines are human creations, and require human assistance, in order to work. To quote B. F. Skinner; The problem is not if the machines can think, it's if the man do. As mentioned earlier, A.I is inevitable, the most acceptable rational approach would be to prepare oneself for it. A.I is arriving — instead of closing our eyes, or putting our heads in the sand, it would be better to start preparing ourselves for it. Kristina

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Georgeve (MD, JMF).

All the skepticism aside, if one looks with the optimistic lens; there are many promises made by A.I., that can change the world for better. In education sector, there are many ways that A.I. can be helpful. The fact that ChatGPT was used by many to cheat; if kept aside, as it can easily be restricted, there are multiple good uses of it. A.I. can be helpful to enhance better concept based learning. It can provide access to multiple data, easily, that can be read and used to teach. Aside from helping students and teachers; A.I. based skill learning can also be introduced, as it is the need of the time. As Richard Baldwin said; A.I. would not replace your job

the people who know A.I will.

Besides education sector, A.I is considered an essential tool in the climate change tool box. The globe is under the massive threat of weather extremes and climate. It is unequivocally the biggest threat dwindling over the earth. A.I can be used in many ways to tackle it. It can predict the weather changes, and its early warning system is already helping the people. In Kenya, Kuzi Lan A.I tool, is being used for early locust outbreak warning. A.I can also be used to monitor the carbon combustion, and can be helpful to assign the credits. By monitoring the crops, and correctly estimating its needs, A.I can potentially increase the crop yield. During the

weather phenomenon like earthquakes etc, A.I can assist and guide about the evacuation routes etc. In short, there are multiple ways in which A.I can help human address the climate change.

————— Apart from Climate change, A.I can be helpful in the health sector. A.I is already helping in the detection of diseases via MRI, and ultra-sound fields. Other than that, A.I can address the problem of shortage of doctors in the health field as well. A.I virtual consultation can be helpful in the remote areas, or in the areas affected by disasters. Another example is the crucial field of surgery, A.I is already ruling through robotic surgery. This can minimize the human error in the field of surgery, and potentially can save many lives. A.I can revolutionize the health sector.

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be if the field of medicine, surgery, pharmaceuticals etc.

A.I. One more promise of A.I. is amelioration of Industrial sector. It is not new that many man-made buildings are met with the disaster, Karachi's housing societies can be drawn as examples. A.I. promises to detect all the errors during the infrastructure building.

Besides that, smart buildings are revolutionizing the Industrial sector.

KSA is set to develop the smart city in the world — NEOM (Bloomberg Media). A.I. also promises to

efficiently use the energy and water resources in the industrial sector.

All in all, improvement in the sector, increase of good life-style decrease in the work load, and

optimization of consumption and utilization of resources; A.I. can be a tool of betterment for the sector.

Other than the conventional tasks, A.I can be used as a creative skill tool. Albeit, the creativity is guided with the human intelligence; but, the ~~require~~ input of humans is an ~~input~~. A.I writes books, draw sketches, make music; one name a skill, and it makes it. Japan Laureate confirms she used A.I to write the book, she is awarded for. (BBC Network). There are many other examples. A.I polishes the skills in ways that humans can not tell if it's a machine-made. The idea of this capability of A.I was spreaded when A.I made pictures of world elites surfaced on the internet — Deep fakes. Elon Musk in a candid conversation said 'They were rather deep reals! This proves the potential that A.I poses.'

Every coin has two sides, similarly, A.I has a good and a bad side to it.

With all the promises that it makes, there is a baggage of bads that it carry.

A.I is more dangerous than the nuclear warheads — Elon Musk

If one look into this statement

it is not only confined with the idea that A.I has its side-effects; It also suggest's

that it has potential of creating an A.I race, like the nuclear race. It is not new that the

world order is transitioning, but there is a debate that the

multiple world order would be divided on the economic,

military, and 'technological' factors. The history is the

witness that the new technology brings the conflicts; one of the

threatening outcome of developed A.I is the conflicts triggered by it

The deployment and the development of Artificial intelligence is not bounded by any policy.

This is a major concern, and has been raised at multiple platforms including United Nations.

There is need of developing ~~the~~ an international agency akin to the International Atomic Energy Agency (IAEA); (Antonio Guterres, ~~g~~ ~~s~~ of UN). Albeit, despite the consciousness towards the need, there has been no ethical policies established as if now.

The EU and the independent countries have initiated it; but, there is a dire need of gathering every nation in a single binding agreement.

One other major concern about AI is its potency to replace people in multiple conventional and creative sectors. The history

is witness of the fact that the Industrial revolution had replaced many daily wages of their jobs. By 2045, A.I would replace 82 million jobs. (World Economic Forum). This ~~such~~ estimation can be worsen by the lack of awareness in people, especially in the developing countries. In conclusion, A.I is a potential threat over the jobs of people.

The flagbearer of tackling A.I climate change with A.I, often forget to mention the A.I foot prints. There is no question that A.I has power to overcome the greatest long-term threat; but the creation of A.I has potential to vastly ~~contribute~~ ~~in~~ the equipping the issue, in the first place. When Open AI trained its large language Model

(LLM) called ChatGPT+, that work produced an equivalent of 500 tons of Carbon Emission. (Terre Dodge, Research scientist, Allen Institute). This shows the tool for climate change has tendency to make it worse as well.

"The sad thing about Artificial Intelligence is that it's neither Artificial, nor intelligent." (Kate Crawford, Microsoft engineer).

The A.I tools were considered safe and merit based, given that it is a machine, which is not sentient and hence, can not pick a side. This idea went into vain when the news of A.I bias popped up on the social media. Amazon's A.I power recruitment tool was found biased (Geo. tv, 2018). This highlights the power of A.I in promotion of Nepotism, and it can be used in much worse

circumstances.

A.I can save democracy, unless it destroys it first. (Slava Polonski, PhD). This capability of A.I can create havoc in the democratic countries.

The major issue is, it has been used already. US election of 2016, Trump's win under question. (BBC news). Trump is said to win via Russian intrusion. A communist country responsible for manipulating Presidential elections of the world power. This issue is way bigger than one can comprehend. This in long term would destroy the democracy, around the world.

There are multiple other repercussions of A.I; nonetheless, the good can outweigh the bad if right steps are taken at the right time.

As the UN General Secretary suggested, a globally binding ethical policy, and a responsible body established to monitor the development and deployment of A.I can save the world from negative use of A.I. There is need to gather the states at one platform and to save the world from the negative or more evil uses of Artificial Intelligence. This would be a step in the right direction.

Moreover, there is also a need to spread awareness regarding the newly deployed technology. A naive approach would trigger multiple negative outcomes. If the A.I has potential to become a threat, then the world inhabitants must be aware of its uses. Other than awareness preparation

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from individual, to national, to international levels. World must unite, and there must be uniformity in terms of knowledge and advancement in order to ~~overcome~~ avoid any conflict.

Another step in the right direction would be the legitimization of A.S. Instead of ~~sewing~~ it in the plate to be available for everyone at any time; its deployment must be monitored in every step of the way. This legalization and limitation would create deterrence in the people of evil minds, who ~~can~~ ~~be~~ make foolish mistakes. And hence, would ~~save~~ ^{save} the world from the evil doings of the evil doers.

One more issue associated with the development of A.I is the lack of transparency of the tech developers. This is no clear evidence of the data regarding advancement of A.I. This ^{lack} of transparency further pushes the enemy states to be in a race. There is need for everyone to be on the same page, and be more transparent about the developments in order to avoid issues.

In conclusion, A.I - a machine that thinks like human ^{is} ~~was~~ potentially promising in multiple fields. It promises to revolutionize the education sector, health sector, industrial sector, to tackle climate change, and to enhance in human creativity. But, like all other

things, it comes with a cost. It has multiple perils attached to it as well. There is no ethically binding policies to regulate its development, it has potential to replace people, it can contribute in global warming and climate change, it can initiate a race between the ~~glob~~ developed countries, it also possesses a threat to democracy, and is a political tool in hybrid warfare. Albeit, with the proper monitoring and regulation of this tool, and most importantly, with an open mind can this tool be used for the betterment of humanity. As Steve Wozniak said, Powerful A.I. system should develop only once we are confident that their effects will be positive, and their risk will be manageable. Hence, A.I. is inevitable; but with

slower progress, and proper preparation it can change the world for good.