

Topic: "The Algorithmic Revolution: Decoding the Pros and Cons of Artificial Intelligence"

(i) Introduction:

We thought we would always be the kings and queens of our destiny and machines were our own. But for a quarter of a century now the crown has been slipping from our fingers. Humans in our brain are no longer supreme, as AI has come a long way since it started beating human at chess. It's no longer a game. AI now think and write like us. It can create pictures and videos indistinguishable from reality. Tech transform societies often better but they also put people out of work. Tech is throwing all sort of issues like privacy, civil liberty, biasness using deep fake videos, pic etc which is also a pertinent threat to democracy. As like chess, where no one can beat AI, what would happen

if it will happen to politics, economics and even in religion. It could be halted by making policies for AI and promoting ethical guidelines. This could be ensure by putting governments into account for its implications.

Thesis Statement:

AI has various pros and cons which is revolting in human history. But this revolution could be Threat to humankind as human most important asset 'intelligence' is transferred to machines. However, by applying stern policy making measures its threats can be minimized.

3- Artificial Intelligence positive impacts on Society

- a) Revolutionizing workflows with Automation
- b) Transforming Healthcare with AI Applications.
- c) Fueling industries and creating jobs
- d) Strengthening Digital Security in AI Era
- e) AI as a Catalyst for Sustainable Environment

4- Navigating Challenges and Ethical Concerns in the AI Landscape.

- a) Increasing unemployment in The Age of Automation
- b) Creating Bias and Discrimination.
- c) Threat to Democracy
- d) Amplifying the chance of Nuclear War
- e) unmasking vulnerabilities in AI Design and decision making driven technology
- f) Creating threat to Survival by developing intimate relations.

5- How to Control AI

- a) Promoting Ethical Guidelines
- b) Inclusive Decision Making for AI policies
- c) Collaborate government for its implementations.

Mon Tue Wed Thu Fri Sat Sun
d) Safeguarding personal data in AI

Date: — / — / 20

One of the major benefits of Artificial intelligence is that it has revolutionized work by automation. It has been done by machine learning in which computer algorithms learn from data, recognize patterns and make decision with little and no human interference. It effectively creates the instruction manual itself and it can continuously adjust those manuals to get better at what it's designed to do. For Example "Google Maps" It uses machine learning to combine real real time data with historical data to generate super accurate predictions for how long your trip might take. Thus AI is creating advances in technological fields and making work easier to achieve.

Along with advancement in technology AI has also ~~provided~~ ^{facilitated} transforming Healthcare with AI application. AI is helping us personalize the delivery of

Care, make hospitals more efficient and improve access to health care by providing accurate decision making tools. AI models are helping our doctors to learn from patients with similar conditions or even similar genetic information and make highly informed decisions about their diagnosis and their treatment options. For instance it is helping doctors to recognize stages of cancer, as well as patients in understanding the risks and success rates of the treatment options. It also helps in scanning or helping radiologists identify tumors. Hence AI is the future of efficient care in health sector.

By facilitating in almost every field of life it is creating new jobs and fueling some industries. AI is empowering companies which are taking initiatives to advance and improve it for the betterment of humankind. It is creating competition among various companies to combat one another for betterment.

On this context they need more employees who can design algorithms in more efficient way. For instance it will create jobs for engineers who are able to communicate with AI tools, Educators with Capabilities related to modelling, Data detectives who are able to inspect and analyze the training data for AI and computation intelligence and machine learning. There will also be depend for experts in robotic engineering, mathematics, psychology, linguistics, and neurosciences. Programming will also remain as a useful skill especially "python" the programming language that is key for AI development. According to World economic forum, AI will create 97 Million new jobs by 2025. Therefore, by improving so far it is also creating new opportunities for youth.

Alongside, empowering youth by creating new incentives it is also strengthening Digital Security in AI Era. AI detects and prevents cyber threats before they harm system. AI can investigate, identify and

and report an issue more effectively than humans could do. Reason being is that bits of information contained in log records and there are loads and loads of these. So, it's very difficult to sort through all that and find where are the anomalous activities. So, Machine Learning has made it very easy to look where is outlier. Then it also put report about data after analyzing the scenarios. So, we can see AI is helping us a lot in the cybersecurity space. That's what IBM, 100% of our security software products include AI.

As far as digital and technological world is benefiting from AI, it also helps to address wide range of social and environmental challenges. Some of these projects include forecasting floods quickly and accurately to prevent potential damage predicting the risks of cardiac events and mapping global fishing activity. In the case of monitoring floods it collects

data on various environmental and geographical factors that influence flood activities and uses these information to train AI and improve the warning system. In india, it has been ^{used} to predict floods where it sent out its first alert in September 2018. There are also similar alerts for predicting earthquakes and wildfires. Thus, AI is contributing to combat ecological threats very efficiently.

Tech often transform societies often the better but they also put people out of work. One of the major challenges of AI, that chief is -threatening for youth is unemployment in the age of automation. Generative AI has capacity to do tasks -that until recently only humans could do! So, we don't see the advances in generative AI as well as other types of AI would produce implications in the workplace. Such as printing press replaced scribes, robots replaced factory workers, and online banking cut out bank tellers. Will we still hire graphics if AI graph it better? For Example Adobe has added AI to its photoshop that allows to add, extend or remove content from images using a simple text prompt. In this context IBM says it's tech company is replacing 8000 jobs with AI. So, AI has potential to eliminate a whole range of jobs.

Along with putting people out of jobs AI also increase biases in already

biased Society. People have built system that were intended to do well in face recognition but they didn't intend they would behave badly on people of color. For instance facial recognition nowadays creates a super powerful tool to identify people through security cameras in the street. But governments are using them to create mess among societies as in Russia police appear to be using it to identify anti-govt protestors. Chinese government is probably taking it further anyone else, using facial recognition cameras on mass scale to track people and monitor their behaviour. There are several reports that they also using the technology for racial profiling to identify Uighar Muslims and Tibetans. This shows how AI is being used for creating bias and discrimination. AI has been trained on data that includes historical inequalities. There are plenty of ways that it can play out. In US, a widely used algorithm to help assess health care needs was shown to be built on racial bias. This shows how AI is discriminating societies by unlawful ways.

Along with threat to Democracy, The stakes of Nuclear war get ever higher as AI is being used as lethal weapons in war.

People already have Armed Controlled drones that use AI technology, to kill some one anywhere at any time. So, machines are making decisions about who and what to target. For instance image in a Taiwan state having a large group of American Drones facing off Chinese drones, and they are trained on classified data, how these two swarms of drones interact and whether they might accidentally fire at one another and accidentally end up in nuclear war. Therefore, consequences of autonomous weapons technology are far more - than any thing else.

Amid looming nuclear war crisis, There is a danger of design faults or problematic assumption about the way that an AI system is intended to work. AI was found to be a factor in many crisis.

where AI made design faults and inefficient ^{was} commands. For instance of in making right commands. For instance in the two plane crashes of the Boeing 737 Max, one in Indonesia and one in Ethiopia, AI was found to be a factor of killing 346 people. As autopilot was AI powered and it was designed to allow for a human override, So, it gave dangerous nose-down commands and it forced the plane to crash. And what happens if a self driving car kill someone? who's responsible there is case going on California that's dealing with that same issue. Hence AI deficiencies are creating deadly threats on Earth.

Along with creating physical threats it can also threaten the survival by disrupting mind of people. To threaten the survival it doesn't need consciousness. It has ability to create and predict things even its developer are unaware