Mankind Faces the Challenge of Using AI Responsibly.

Outline:

1. Introduction:
Thesis Statement Humans face the challenges of using artificial intelligence responsibly, because of its far-reaching impacts. However, the world has waken up to its possible effects and is taking steps to regulate it.

2. Concern Regarding the Rapid Development of Artificial Intelligence and its regulation.

3. Challenges Posed by Artificial Intelligence
   a. Users' privacy is not protected.
   b. Cognitive ability of students is harmed.
   c. Lack of institutional recognition.
   d. Diagnosing and health problems
   e. Hallucinations / Fake facts.
   f. Biased Algorithms are found.
   g. Propagating manipulative agenda.
   h. Increasing polarisation
   (i). People may lose jobs.
   j. Climatic Impact
   k. Shift in Global Politics
   l. Increased Competition between states.
   m. Developing countries will be lacking.
   n. Spark a catastrophic war.

[Handwritten margin notes in red:]
— You have not addressed the asked part
— Structure your argument as well
— because of their inability to deal with the new technology
— These are challenges in the way of.... You have to talk about why human has face to use it responsibly E.g. they lack knowledge... Write such points

4. Steps towards regulating the Responsible use of Artificial Intelligence
   a. setting standard for regulation
   b. Harmonizing its use.
   c. Global discussions
   d. New policies ⟶ related to?
   e. Awareness about its impacts
   f. setting the algorithms and transparency.
5. Conclusion.

Essay:

   In the words of the renowned science fiction writer Isaac Asimov, "The saddest aspect of life right now is that science gathers knowledge faster than society gathers wisdom." As we delve into the age of artificial intelligence, these words resonate more than ever. Our journey into the realm of AI is reminiscent of a line from Robert Frost's poem, "Two roads diverged in a wood". The path we choose will define not just the future of technology but the very essence of our humanity. Humanity is facing the challenges of using AI responsibly. Certain impacts of AI include the biased algorithms, deep fakes, insecurity of users' personal data. Along with this, it may cause certain job holders to be unemployed and increase polarization in the society. Some of the options for regulating its usage include setting standards, global address for the issue, new policies and awareness about

the impact of AI

Some technology leaders like Elon Musk, Steve Wozniak, Vancouver Gary Marcus, and others are calling for an immediate pause of atleast six months for training of AI(s) more powerful than chat.gpt(4). letter says "powerful AI systems should be developed only when we are confident that their effects will be positive and their risks will be manageable." Rapid development of AI is becoming a reason of grave concern for the major global actors as well as the general public. AI is growing at a pace way faster than what is possible for humans to sea catch upto. A pause in its development and growth is necessary to recognize its impacts and find a way to regularize them. It is becoming a defining feature of life, culture and state power. People will not be able to get a hold of it, if it is let to develop at the same rate. It has some major challenges ready for people using it.

For starters, people are realising that their privacy is not protected though the use of AI. Their information is shared without their knowledge and consent. "In 2021 the Capital One Breach exposed the personal data of

over 10 million users, showcasing the vulnerability of sensitive information." AI poses a serious threat to people's private information and puts it at a risk of being used in whatever means. Clearview AI scraped 30 Billion images from Facebook without the consent of users and gave them to cops which were later used in facial recognition. It is highly unethical that the users' ~~infor~~ data is not safe at such sources.

In addition to this using people's personal information, it is also harming their cognitive abilities. Students are becoming over dependent on AI for problem solving and writing their assignments. Most of the times, these sources only check language and grammar, and do not focus on deep thinking and critical ~~analy~~ analysis. According to a recent survey in October 2023 by CommonSense Media, parents ~~an~~ have significant concerns about kids becoming too dependent on AI. Strong majorities are concerned about kids using it for sr school (66%) and kids using it to cheat (60%), and it generating inappropriate content (60%). AI focuses more on not learning and makes students dull. Many students use it without their parents' knowledge. According to the same

report of common sense media, 38% of students say they have used ChatGPT for a school assignment without the permission of their teachers. Irregular use of AI is creating rust around the human brains which made it.

It is also causing a tech-based knowledge gap in between the institutes. While some institutes are using it for integration into their teaching patterns, others are not even ready for it. This is creating a knowledge gap. Some students mostly belonging to elite class will have better advantages and Kro knowledge than the less priveleged. According to WEF, 76% of educators believe that their current education systems are not adequately prepared for the challenges posed by AI and related technologies. These survey make the world aware of the possible impacts of AI and the carelessness towards its use and regulation. Educational differences will place the world in further divisions.

In the health sector, AI is becoming a reliable tool too. Doctors are becoming dependent on it for diagnosing newlyfound diseases. It is also providing use to those disease. But, it should not be relied upon too much because in 2020, an AI algorithm was used to analyze chest X-rays for covid-19

was found to have inaccuracies, potentially leading to misdiagnosis and delayed treatments for patients. This shows the lack of AI in the field of health and treatment. It cannot be trusted over human active brain, because AI is not actually an intelligent being, it is just a software which uses historical data to infer the present and future.

To add fuel to the fire, AI cannot be trusted with the data it provides. A term "hallucinations" is best used to describe this case. Hallucinations is when something doesnot really exist but is presumed to be existing. This is what happens to AI. Sometimes it creates fake examples and cases to back its statements. For instance In May 2023, it was discovered that Stephen Schwartz submitted six fake case precedents generated by ChatGPT in his brief to the Southern District of Newyork on Matav, Avianca. A personal injury case against the airline Avianca. (Here's what happens when your lawyer uses ChatGPT, Benjamin Weiser. 2023). The authenticity of AI is highly unpredictable and unreliable.

Along with this, while world is celebrating the eradication of inequality and biased attitud brought with technological inventions, AI is increasing it. These have been such algorithms which are found to

be biased towards different genders. On one hand, the world is trying to integrate women ♀ into more work fields to reduce gender gap, on the other hand AI is widening that gap. Amazon was using AI to screen the job applications, and it was discovered that AI system exhibited bias against female candidates. (Amazon scrapped its 'sexist' tool - BBC 2018). AI algorithms donot understand the impact of its choices which are very strong. It is playing a significant role in gender bias and inequality.

Since AI is based on algorithms, it will work on whatever algorithms are set. It can be used by 'bad actors' to manipulate the information and propagate wrong facts. It can give one side power over the other and the influence to affect the domestic and global politics. Ian Bremmer and Mustafa Sulayman write in their Essay "AI power Paradox" that "AI is not just another tool or weapon that can bring prestige or power and wealth. It has the potential to enable a significant military and economic advantage over adversaries". It can lead to further competition between the states and non state actors. Manipulative agenda

can be spread easily using AI.

AI is also increasing the polarisation. Political competitors can use 'deepfakes' to blame anything on eachother. This can increase pol polarisation to a significant extent. In 2019 a deepfake video of Facebook CEO Mark Zukerbey surfaced on social media, saying things he never said. This incident highlighted the potential for deepfakes to be used for spreading misinformation and deception. In 2020, a deepfake video of the former British Prime Minister Boris Johnson and the leader of the opposition Jeremy Corbyn was created by a think tank called the 'future advocacy'. The video depicted both politicians tts endorsing eachother in the context of the 2019 UK general election. The deepfake was a part of a campaign to raise awareness about potential risks of misinformation and deepfake in political context.

Another drop in the ocean of challenges posed by AI is the 'job displacement' that it will cause. It can destroy millions of jobs worsening the existing inequalities and creating new ones. According to World Economic Forum by 2025, automation could lead to displacement of 85 million jobs. The loss of jobs will increase unemployment and can cause further deterioration in societies. It can increase crime rate and accumulation of wealth in few rich

hands.

The sphere of AI and its challenges is so broad that even climate is not safe from its impacts. As the world is trying to deal with the carbon contribution and increasing temperatures, AI is adding to it. The world temperature has risen to 2°c due to global warming. A major contributor to global warming is carbon footprint. Training a single AI system can emit over 250,000 pounds of CO_2. In fact the use of AI across all sectors produces carbon emissions at a level comparable to aviation industry (AI's Environmental Costs and Promises, Elisabet Jones, 2022). World is seeing the impact of global warming. AI is contributing a great deal to it.

AI is also likely to expand the scope of International Relations by bringing a shift in global politics. "It will bring a siesmic shift in the global order as it threatens the nation-states as world's primary geopolitical actors. There is emerging 'technopolar' world order in which technological companies wield the power in their domain, once reserved for nation states only"(Ian Bremmer and Mustafa Suleyman "AI Power Paradox"). It will shift the definition of balance of power, state supremacy and alliances. AR is going to bring a revolutionary

and rapid change in global politics.

Furthermore, it is increasing the race between the states. As according to the 'Realism', the "states enter into a security dilemma", and they seek to increase their power against the rival states. This is done to protect one's own national interests and sovereignty. A living example of this is "US-China" trade war and technological sanctions. US has imposed a ban on exporting semiconductors to China, in order to halt its technological progress. In return to this China has banned the export of Germanium and Graphite to US, used for making semiconductor chips (The Economist, 2023). This is the impact of AI in state-to-state power relations. "China and USA both see AI as a zero-sum game that will give the winner a decisive edge in the decades to come" (The AI Power Paradox). AI is mostly going to increase the state concerns regarding security.

In this AI development war, the developing countries will be left behind. They will be squished between the race of the powerful countries. The states will have to choose wether they have to balance between the states or go for bandwagoning. The Global South is most likely to lag behind the world.

"Many countries would not be rich enough to compete for AI leadership. Their access to AI frontier will completely depend on their relations to some powerful countries. Which will shift the dynamics of the power imbalance" ("The AI Power Paradox" -Foreign Affairs). The choices of developing countries will be affected with it too. The foreign policy and their inclinations too in the international standing.

It can be used to generate and spread toxic misinformation, eroding social trust and democracy, to surveil, manipulate and subdue the citizens. It can undermine individual and collective freedom and create powerful digital, or physical weapons that can destroy lives. A single misinterpretation and misinformation produced by AI can cause huge problems in the face of global trust deficiency. "It may spark unintended and uncontrollable military escalation that can lead to war". AI is dangerous and its irresponsible use pose great threats to global peace and harmony.

However, the world is waking upto the realization of the challenges of using AI responsibly. In a survey conducted by Pew Research Centre in 2021, it was concluded that 72% Americans expressed concerns about the use of AI.

There needs to be standardization of the use of AI. UNESCO produced the first ever "Global Standards on AI Ethics" the "Recommendation on the Ethics of Artificial Intelligence" in November 2021. This was adopted by all 193 states. Standards like these must be placed at minimum and maximum level. At global, state, and local levels in order to make the world adopt these standards and regulate the usage of AI.

It cannot be governed without taking the Tech giants into confidence. Such forums must be build where all the global actors can discuss the flow of AI and other world matters in harmony. In May 2023, the G-7 launched the "Hiroshima AI process", a forum devoted to harmonizing AI governance. Such forums allow the discussion among various leaders about the ethical use of AI.

In July 2023, UN Secretary General Antonio Guterres called for the establishment of a global AI regulatory "Watchdog". This is a step towards global recognition of the impacts of AI. This should be given enough consideration and global watchdog must be made to regulate the usage of AI. Coming across various perspectives will help

the global leaders control the rapid development of AI.
All the International Organizations must create platforms to keep in check the advancement of AI. In June 2023, the EU Parliament passed a draft of the EU's AI act - the first comprehensive attempt by EU to erect safe guards around AI. This must be followed by all other cooperative organizations to create such policy frame works which can provide people with the direction of using AI properly.

Another step towards keeping up with the pace of AI is creating awareness about its usage. According to Survey by Common Sense Media in October 2023 - majority (61%) of parents think schools should limit the use of AI programs like ChatGPT until rules and safeguards can be put into place. Educating the people about AI ethics, responsible AI use and potential AI associated risks. Public discussions and conferences could be held about the ethical implications and potential harms of AI. Raising awareness is a collective effort and by spreading information and engaging in discussions, we can help each other.

It is also necessary to set the algorithms, and ensure transparency. It can be done through practices like explainable AI, where the reasoning behind AI's decisions is made understandable and accessible to humans. This can involve providing clear documentation, disclosing the training data and algorithms used, and promoting open dialogue between users, programers act and developers. Transparency will help build trust and accountability in AI systems.

To get the whole discussion in the simplest form is understanding the challenges of AI and solving them. Challenges like privacy breachment, damage to mental capabilities, job displacement, shift in global politics are to be solved through policy frameworks, and awareness and global and local level discussions. Humans are the one who made AI themselves, they should be able to regulate it too, before it causes a damage which cannot be condoned.