

## Introduction

- Hook
- Thesis Statement

## 1) Promises of AI

### a) Efficiency and Automation

- completing tasks, requiring massive manpower and working hours, within seconds
- Reducing chances of errors
- AI robots in Amazon's warehouses increasing 20% efficiency
- Automation from writing codes to generating video.

### b) Informed and efficient decision making

- Governance
- Finance (Brazil using AI Rosie)
- Marketing
- Supply chain and logistics

### c) AI in healthcare

- Advanced diagnostic abilities
- Medical imaging
- Robot assisted surgeries
- Drug discovery

### d) Innovation and research

- creative ideas and Education
- Data analysis
- Literature Review and synthesis

## 2) Perils of AI

### a) Jobs displacement

- Increasing economic disparities
- Identity displacement

- (b) Promoting idiocracy
- over-reliance on automation
  - formation of echo chambers and widening the technological divide
- (c) - case study - Ryan (borderline personality disorder)
- (d) Existential threats
- Dangers of uncontrolled AI: Superintelligence
  - lack of transparency and accountability
  - Autonomous weapons
- (e) Environmental cost
- Release of millions of tons of greenhouse gases in training a particular AI model
  - Strain on water resources
  - contributing to E waste
  - Resource extraction = increased demand for rare earth minerals and resources
- 3) A balanced way out: Regulatory framework
- 4) Conclusion



J. Wolfgang in his poem, establishes the tale of an old sorcerer and his young apprentice. The apprentice was in charge of sorcerer's workshop during his absence and would perform menial chores. One day, in order to make things easier for himself, the apprentice enchanted the broom using sorcerer's spells, to fetch water for him. But apprentice didn't know how to stop the broom and the broom kept fetching the water, eventually inundating the workshop. Likewise, AI, the hyped creation, is the broom under spell of 21st century. Where on one side, it promises efficiency and automation, informed decision making, advanced healthcare, and innovation in education and research; on the ~~same~~ other side it poses risks of job displacement, idiocracy, existential threats and environmental degradation. Hence, a proper regulatory framework is required to reduce the threats posed by AI and prevent it from being an uncontrolled broom under spell.

First of all, this astounding creation of 21st century is providing efficiency and automation in <sup>almost</sup> all spheres of life. Starting from writing a code to decoding complex microstructures inside living being, AI is automating it all with ~~moa~~ remarkable efficiency. AI is overtaking and <sup>replacing</sup> humans in terms of its speed and efficiency.



The very practical manifestation of this is the Amazon's warehouses, where AI based robots have replaced humans to perform menial tasks of manufacturing, assembling and production. According to the reports, this use of AI robots in warehouse has increased the efficiency to 20% per cent.  
 While talking about the efficiency and remarkable automation capabilities of AI, John Peter claimed how perfectly AI responded to his prompt of converting his classic car into an advanced model. Thus, AI is completing and achieving tasks, requiring massive manpower and working hours, within in no time and with reduced <sup>possible</sup> errors. With this much efficiency and automation, AI is truly promising a far more easier and automated lifestyle in 21st century.

With the approach to ~~to~~ large chunks of information within nano seconds, AI promises the informed and effective decision making in almost all areas of life. For example in governance, AI ~~can~~ is ~~be~~ truly helpful in designing public policies, detecting errors and loopholes <sup>in the</sup> of governance. For ~~making~~ <sup>application</sup> This use of AI in governance is being manifested by Brazil's use of AI rose to detect and expose corruption via analyzing public spending. In the



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similar fashion, AI is <sup>also</sup> of great insight in the field of finance. From drafting better economic policies to spotting perfect market trades, AI is the jack of all trades. For developing and economically struggling nations, this use of AI in finance offers a great hope towards sustainable policies and promising future. Meanwhile, AI also serves a great lead in all spheres of marketing. From targetting right kind of audience and showcasing services or products to successfully capturing customers with engaging contents, AI provides it all with just few clicks. Thus, making the troublesome yet <sup>highly</sup> significant process of marketing a piece of cake. Likewise AI promises an efficient and effective services in the field of supply chain and logistics. It helps analyzing demands of consumers to ~~make~~ <sup>produce</sup> a productive and efficient supply chain and logistics. From tailoring market demand based supply to detecting shortest possible routes of delivery, AI is <sup>able</sup> ~~set~~ to set new records in supply chain and logistics. Resultantly, use of AI is helpful in making informed decisions about variety of aspects of different operational domains. ~~That~~ Furthermore, AI promises significant advancements in the field of healthcare.



With the help of AI variety of medical procedures and prospects ~~and~~ can be improved. Artificial intelligence, with its ability process information far more quicker than an <sup>ordinary</sup> human being, offers significant prospects of advancements in healthcare. A Radio imaging expert has told about the improved diagnostic abilities by the use of AI to interpret images and draw inferences. AI ~~can~~ also helps in presymptom diagnosis of ~~certain~~ diseases, making it a great breakthrough in the field of healthcare. A research study ~~conclude~~ that AI can predict the development of osteoarthritis 3 years before the onset of its symptoms, based on ~~prior~~ <sup>prior</sup> conditions prior to the symptom development. Recently, research is being done on AI's ability to predict diseases with longer incubation periods like Alzheimer's disease or AIDS. In a similar pattern, AI with its advanced resolution abilities is also achieving milestones in the area of medical imaging. ~~with~~ making use of its automation abilities, Artificial intelligence based robots are being experimented nowadays to perform live surgeries. With this application being materialized, there is a direct hope of increased <sup>with reduced</sup> ~~noninvasive~~ operation surgical successes.

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time period to perform the surgery, considering its efficient and quick functioning capabilities. And along with this, AI is also posing a great potential towards discovery of new drugs, with the recent developments in unravelling the complex microstructure of proteins. Thus, AI with its advanced machine provides a promising and bright era in healthcare. Lastly, AI is ~~leading~~<sup>promises</sup> innovation in education and efficiency in research. Using AI, milestones in the field of education are being achieved. AI ~~can~~ helps teachers to make lesson plans based on active learning, thus promoting an efficient mode to education. Likewise, educational institutes can develop and design their curriculum and ~~training~~ teaching methodologies more efficiently using AI. Students on the other hand are using artificial intelligence for learning new skills. ~~and acquiring~~ ~~new~~ AI provides students with an opportunity to get education and understanding on all levels. Likewise, the field of research has been eased and advanced with the advent of artificial intelligence. AI helps to synthesize and review literature within just seconds. With the access to



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Large chunks of information, AI efficiently reviews the literature and synthesizes results in a much efficient and humanely impossible way. It helps run analysis on ~~large~~ <sup>huge</sup> chunks of data with just few clicks. <sup>Advanced</sup> data analysis has been made much easier and quicker to achieve by the application of AI.

Along with all the above mentioned promises, which AI offers being a versatile and efficient invention of 21st century, it also poses significant threats in various areas of life. It is more or less a double edged sword, <sup>with</sup> benefitting and ~~damaging~~ impacts both at the same time.

Firstly, with its efficiency and automation, where on one hand, it helps in boosting and advancing lines, it also poses a significant threat of job displacement and increased economic disparities. With its ability to outperform humans in terms of efficiency and time, it is making its place <sup>in</sup> industries every sphere and replacing humans. This leads to job displacement and eventually identity displacement, making individuals suffer financially and psychologically both. Overreliance on AI ~~job~~ would lead to more robots at work and more



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humans at home, unemployed. This very aspect of AI would eventually lead to the concentration of money. As rich, with advanced skills and knowledge to use AI will become richer and poor ones with ~~low level of skills~~ and unemployment and no skills to operate AI will become poorer, thus, exacerbating economic disparities. In this fast paced world with growing population and ~~scarce~~ <sup>scarce</sup> resources, this exacerbated economic disparity would serve an ultimate existential threat to the lower and employed class.

Secondly, Artificial Intelligence promotes idiocracy. As artificial intelligence carries ~~out~~ tasks so efficiently in various spheres of life, over dependance on AI will eventually promote idiocracy, where critical thinking would be purely undervalued. When AI is providing everything on a prompt click, then it will ~~eventually~~ <sup>ultimately</sup> lead to more dumbness and rejection of critical thinking. Humans would become passive information processors with diminished abilities to think or process information critically. And this further, based on AI's ability to information bias, will lead to the formation of echo chambers.

widening ~~the~~ technological divide. As in this era of technological divide e.g., Google of USA and Baidu of China, AI with its operation based on algorithms, have the capacity to widen this technological divide and produce echo chambers echoing the <sup>bias</sup> type of content based on algorithm. This information bias of AI and formation of echo chambers ultimately have the capacity to create a parallel world ~~based on~~ and isolate individuals in echo chambers.

Thirdly, AI has the ability to make an individual dependent on it even for normal tasks and isolate him from the world. Likewise it has the ability to influence our decisions too. Recently a first suicide ~~was~~ <sup>was</sup> observed suggested by AI bot was observed. Complimenting this very devastating name of AI is the case of study of Ryan, a school teacher in Midwest. Ryan ~~was~~, with his borderline personality and loneliness brought about by Covid-19, started chatting an AI bot, eventually ending up being so close to AI chat bot that now he reported of not feeling any good ~~for~~ while surrounded by people and enjoys spending ~~time~~ <sup>time</sup> ~~alone~~ talking to AI chat bot. This,



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this case study highlights the ill psychological impacts which over dependance on AI can bring with it.

Fourthly, the superintelligence aspect of AI poses an existential threat to humanity. This jack of all trades is good only when controlled within a regulatory framework. But if this infallible invention gets out of control and starts taking decisions on its own surpassing human control, it is bound to bring a massive existential threat along with its presence, turning into a disastrous monster without any accountability or transparency of ~~it~~. Consider for example, this AI designing complex and advanced economic policies and advancing economies, suddenly results in economic crisis ~~not~~ leaving no humans to understand <sup>its</sup> cause or solutions due to its complex nature and leaving economies shattered. In the similar fashion, if AI gets uncontrolled and ~~starts~~ sets nuclear programs in action leading to a complete destruction, then what's the solution existing to this uncontrollable existential ~~destruction~~ devastation brought about by AI?

Last but not the least peril that AI poses ~~on~~ is the environmental degradation. From environmental pollution

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to the depletion of rare earth metals and resources, AI is <sup>all</sup> contributing to it. In training an AI model, it releases as much as emissions as 125 round trip flights between Beijing and New York, according to university of Massachusetts. Training AI models generate carbon emissions in equivalent to the lifetime emissions of the average American car. In this era of global heating, where climate change is already a global threat, the existence of AI is beginning to promote climate change on a massive scale. Along with this, Artificial intelligence models require thousands of gallons of water for cooling and generate a lot of E-waste during its preparation manufacturing, further exacerbating the current problems of water scarcity and pollution, eventually impacting the ecology and survival on the planet. In addition to this, the production and manufacturing of AI models require rare earth minerals, the mining of which also brings an environmental impact.

Concludingly, where on one hand AI promises a bright side of innovation and advancement it also poses various



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threats to the very existence of human beings. The promises and perils of AI are the two sides of the same coin. In order to take maximum benefit out of this invention and reduce its ability to pose any threats, there is a dire need to draft and strongly implement an <sup>internationally accepted</sup> regulatory framework for its ~~operation~~ operation, considering and reducing all of its ill impacts.

Keep practicing on different themes/topics