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CSS' 26

Essay:

AI: evolution of science & technology
or peril for humanity?

Outline

1. Introduction

- (i) Attention grabber
- (ii) General overview
- (iii) Thesis statement

Your essay is good but focus on your references ...

Properly cite the reference from where you have extracted the information

While AI hails as prudent invention in 4th industrial revolution, it is becoming a peril for humanity causing unemployment, economic loss, environmental degradation, misinformation, instability, human de-skilling, social and psychological impacts.

2. AI: peril for humanity

- (i) Raising the graphs of unemployment and massive job loss around the globe

Case study: Mckinsey estimated that 800million jobs could be lost by 2030 due to AI-driven automation.

Teacher Feedback

(ii) Moderanizing and weaponizing warefare
tools using AI e.g autonomous warfare

case study: Turkey made Kargu-2 drone automatically attacked soldiers, registered as 1st case of machine deciding to kill.

(iii) Prevailing misinformation and instability
using undistinguishable deep fakes and voice prints.

case study: In 2023, deep fake in Hong Kong tricked an HR manager in transferring \$25 million.

(iv) Contributing in environmental degradation
and energy loss.

example: Training GPT-3 requires an amount of energy equals to driving a car to the moon and back.

(v) De-skilling the humans, making them
over-dependent on AI and technology.

case study: A plane crash of air france flight 477 as pilot forgot to handle the plane when auto-pilot got disengaged.

(vi) Impacting social and mental health of humans by promoting social anxiety and depression.

(vii) Misusing AI for criminal purposes causing potential threat to humans.

Case study: In 2021, when AI was given a prompt, it created 40,000 deadly chemical weapons in less than 6 hours.

(viii) Collapsing the economy in AI-driven trading and automated businesses.

Case study: In 2010, flash crash of \$1 trillion was recorded due to automated trading.

3. Rebuttal: AI as evolution of science and technology

(i) Excelling in the fields of medical and health science by promoting automated diagnostics and robotic surgeries.

example: Google's AI assistant can diagnose eye diseases.

(ii) Moderanizing education and agriculture through AI generated tutors and automated irrigation techniques.

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4. Way forward and future of AI

The future of AI depends upon human's intent and their responsible use of AI.

5. Conclusion

With offering multidimensional facilities in education, medical, agriculture, climate mitigation it is raising a potential threat for humanity by promoting unemployment, human-deskilling, economic loss, misinformation, etc.

If you are giving the evidences then mentioned them in all points
Your arguments are good
But enlist yeh recommendations as well

The Essay

"With artificial intelligence we are summoning the demon-Elon Musk"

Tech experts and scientist like Elon Musk and Stephan Hawlings have already warned us about repercussions of artificial intelligence. When something is easily accessible it means the price is you. This is the same case with artificial intelligence.

Undoubtedly, AI has made a paradigm shift in our lives making it more convenient but contrarily it has made man its slave by making him over dependent on machines. Now, artificial intelligence is taking over our lives from domestic affairs to professional affairs.

As AI hails as a prudent invention in 4th industrial revolution it is becoming a peril for humanity causing unemployment, economic collapse, human de-skilling, instability, misinformation, environmental degradation, social and psychological impacts.

To understand how AI is

becoming a peril for humanity. Let's elaborate its multidimensional negative impacts on humanity.

A significant threat that is emerging with the rising use of AI is massive loss of jobs and unemployment.

McKinsey estimated that 800 million jobs could be lost by 2030 with AI-driven automation. AI is replacing humans as teachers, corporate workers, managers as well as judges and doctors. The fields that were once regulated by humans are now being operated by machines and automation. This modernization and advancement of technology and machines are replacing human jobs. In India and Phillipines call center workers are being replaced by AI. There would be no harm in mentioning that AI is not coming for human comfort, it is coming for human loss. While unemployment is a rising issue in third world countries, the advent of AI is adding fuel to the fire. That is why

steep rise has been witnessed in unemployment and massive loss of jobs. By raising unemployment, AI is creating a peril for humanity.

In addition to unemployment, another most devastating demerit of AI is its weaponizing. Now AI is assisting in autonomous and cyber warfare creating instability and conflicts. It was reported that a Turkey made Kargu-2 drone deliberately attacked 2-soldiers reported as first case of 'machine deciding to kill'. To extent to which AI is assisting in weapon automation, is alarming. While living in nuclear age, when the whole world can be vanished by just one-click the assistance of artificial intelligence in warfare is a great risk and threat to human survival. AI must be kept out of military and warfare domains. The age where data is the most expensive currency AI can hack and corrupt the confidential data in a matter of seconds. The power and capability

of AI must not be underestimated. This is how AI can erupt cyber wars in the modern age. Thus, weaponization of AI in automation and modern warfare is posing a peril to humanity.

Moving forward, another most commonly reported misuse of artificial intelligence is creating deep fake visuals, audios and images to trick and distract public. Hackers and criminals use AI for robbery and fake propogandas against government by spreading fake news in their audios. In 2023, a similar case of robbery was reported in Hong Kong when a criminal tricked an employ by using voice print of his boss and successfully gained \$25 million from that employ.

Usually, these tech experts copy someone's voice print or image and give it as a prompt to AI and ask it to create similar voice but with message of their convenience.

Similarly, opposition parties use this fake propoganda against eachother during elections

This is how dangerous and scary AI can be. Artificial intelligence aiding in robbery is a potential peril to humanity.

Alongside robbery and misinformation AI is also assisting in environmental degradation. The question is how a technology can contribute to environmental degradation?

Technology is powered by energy and so does the AI. To train and develop artificial intelligence demands an enormous amount of energy. Training GPT-3 requires an energy equivalent to driving a car to the moon and back. The energy that can be invested in human welfare is being utilized by AI. The sorcery is a single technology is utilizing such enormous amount of energy that can be used for millions of people. Moreover, the waste from tech industries is degrading our environment.

Governments are clearing the forest to build tech industries and silicon valleys. Rather to waste such enormous amount of energy on a technology that is raising

a threat for humanity. can be used for human welfare like in solar energy, wind energy or in agriculture advancements. But degrading environment to develop a technology will only pose a peril to humans.

While AI was developed to assist humans, now it is overtaking and de-skilling humans. AI has led to over-dependency of humans on machines and technology resultantly causing negative implications on human intelligence. ~~The crash~~ of air France flight 477 was reported as pilot was unable to handle the plane when autopilot got disengaged.

This incident manifested how humans are overly dependent and addicted to machines.

Artificial intelligence was meant to assist human intelligence but conversely it is affecting normal functioning of human intelligence. Humans are now loosing ability of critical thinking, evaluating and objecting because AI is providing them everything at doorstep and uncounciously.

feeding human thoughts. It's a disastrous fact to acknowledge that in 21st century machines and technology are assisting human intelligence posing a threat to human thinking.

Along with restricting human brain's efficiency to critically analyze, AI is promoting social anxiety altering the psychology of human brain. AI and chat gpts are capable of providing every entertainment. It is replacing the need of relationships and emotional support in human life.

Humans often treat AI as their friend and share their details that is in fact sharing personal data with AI that can be misused by any means. This over dependency is pushing humans into isolation restricting their social exposure. Over the recent years, a steep rise has been witnessed in the cases of anxiety and depression. Addiction with technology and AI alters human brain psychology pushing him in depression. This is how rising use of AI perils a threat to humanity.

Among all these potential misuses of AI another one includes as misuse by criminals. With the advancement of technology, criminals have developed the methods of their crimes and conflicts. In 2021, when AI was given

a prompt, it created 40,000 deadliest chemical weapons in less than 6 hours.

So, in this way criminals use AI to advance and excel in their technology.

Often, AI is used by insurgents, terrorists and proxies to promote conflicts and instability. These terrorists and

insurgents are skilled enough to use AI for drug trafficking, human smuggling and developing more advanced weapons. That

is why **Stephan Hawking** warned about immense use of AI. He said, "**Development of artificial intelligence could spell an end to human race.**" This is how AI

can assist criminals in major war crimes playing a potent role in causing peril to humanity.

Another potential setback of artificial intelligence is economic collapse. Tho it has potential to contribute in rise of economy but its automation can lead to drastic economic collapses. It was witnessed and notice in 2010 when a flash crash of \$1 trillion was happened in global economy due to AI-driven automated trading. At that time it was a huge set back for all the global economies. Man needs to understand that AI works on algorithms and digital electronics. It depends upon how you feed and move the algorithms. AI does not have decision making capability. AI-driven automated system invested \$ dollars depending upon prompt and algorithm without analyzing the consequences and it resulted in loss of \$1 trillion. Other than this AI is also dangerous to be used in banks and banking apps. The companies managing their finances and investments using AI experience huge losses sooner or later. That is why AI is not a

trusted technology. No offense to the fact that it was developed to manage multitasking of humans and to assist them in domestic affairs but no this over dependency of humans on AI is pushing them to the brink of disaster.

Among all these setbacks, AI is also contributing to human development.

The remarkable inventions of science and technology have always aided humans.

The development of AI is the beginning of a new chapter in human civilization.

Though AI is not as efficient as human intelligence but it is assisting humans in numerous ways. Artificial intelligence is considered as the most miraculous invention of science and technology till the date. It has made paradigm shifts in the domains of medical, health, education, climate mitigation, institutional management and many more.

The developers of artificial intelligence have made it potential enough to raise the annual global economy well-combined with human intelligence, AI can lead to enormous economic development. PWC predicted that AI has potential to contribute upto \$15.7 trillion in annual global economy if it is used responsibly. This is how beneficial AI can be. The countries who efficiently invest in IT, AI and technology are countries with roaring economies. On the other hand, the countries that fear to invest in IT and AI like Sri Lanka, Afghanistan are struggling with their economies today. China and India being the largest tech exporters are excelling and reaching the new heights of economy everyday. Other than this, auto-driven machines and robots increase the industrial efficiency upto 10 times which eventually contributes to the economy. This how along with managing

multitasking. AI can potentially contribute to world's economy.

Other than economic contribution, AI being a miraculous evolution and development of technology is assisting in fields of medicine and education too. In medical domain, artificial intelligence is effectively serving its soul purpose. The credit goes to human intelligence that today AI-driven robots and technologies are performing surgeries with minimal loss and diagnosing the diseases.

Google's AI assistant diagnose eye diseases with upto 98.2% accuracy and AI-driven robots performing surgeries like organ transplant.

This is all the success and innovation of science and technology that man is curing deadliest diseases.

In 19th and early 20th century, no one could ever think of machines performing liver and kidney transplants but this is all possible due to development of artificial intelligence. Beyond the field of

medical, artificial intelligence is playing a successful role in education. It is assisting millions of students around the globe in learning and education. AI emerged as a magical wand for those who eagerly want education and lack of resources restricts them. So, today, AI is educating all beyond the restrictions of schools and institutes. It is capable of providing beneficial and effective education to all without any discrimination.

While AI hails as a double edged sword in 21st century, its responsible and effective use depends upon human intent. **AI is a technology that is totally powered by human intent and skill.** It can either be used as a deadliest weapon for the destruction of humans or can be used as a magical wand for the welfare and development of humanity. Its effective use and safety is a human responsibility.

In a nutshell, AI is a peril for humanity. Along with few services, it is posing disastrous threats to humanity. A technology that promotes unemployment, economic loss, human de-skilling, misinformation, weaponization, instability and mental health issues. The rise of AI has been proved a curse for human thinking and psychological abilities. Thus, its trajectory is not pre-determined and its use depends upon humans.