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Artificial Intelligence can be saviour
of human race.

Outline.

1. Introduction

Thesis Statement:

AI has potential to be savior of human race with its problem solving and automation skills. However to navigate its challenges, fostering collaborative growth and robust governance is essential.

2. Evolution of Artificial Intelligence.

3. AI has the potential to become humanity's savior.

a) AI possess immense potential to solve complex problems

b) AI can tackle existential threats like climate change

c) AI can revolutionize healthcare leading to enhanced well being.

d) AI has the potential to innovate teaching and learning practices.

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e) AI can expand human capabilities through robotic aid and advanced technologies.

4. AI poses a significant threat to human race.

a) Widespread AI adoption might lead to significant job displacement.

b) Addressing climate change requires not just technical solutions but overhaul of global policy and behaviors.

c) AI algorithms can perpetuate existing biases in data.

d) AI threatens to exacerbate inequalities and undermine critical thinking skills.

e) Technological advancement could lead to global rivalry and arms race.

5. Future of AI depends on responsible development and implementation.

a) Investing in education and reskilling ^{help} programs can adapt to changing job landscape.

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- b) There has been global awareness to use AI for sustainability
- c) ~~Implementing~~ ~~Implementing~~ robust regulations and governance can mitigate ~~the~~ risks.
- d) Creative ways should be developed to use AI in responsible way
- e) International cooperation is needed to establish ethical standards.

6. Conclusion.

Essay.

Rapid scientific progress in 1665, led Robert Hooke, an English polymath, to describe advent of new scientific instruments as "the adding of artificial organs to the natural." It explored inaccessible realms and discovered things in new way. For Hooke's modern day successors, the adding of artificial intelligence to science toolkit is poised to do same in coming years. AI is revolutionizing how one explore and understand the world.

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This revolution has the potential to be savior of human race through its problem solving and automation skills in various field. It has innovated health sector and education and tackles many existential threats like climate change. It has ability to expand human capabilities through advanced technologies. However it still poses significant threat to human race. It can lead to job displacement, require overhaul of global behaviors and can perpetuate biases in data. The advancement undermines human critical thinking skills and can lead to global rivalry and arms escalation. But these challenges can be addressed through responsible development and implementation and the future of modern world lies in Artificial Intelligence. AI has potential to save human race with its problem solving and automation skills. However to navigate its threats, fostering collaborative growth is essential.

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The evolution of AI has traversed distinct phases since its inception. Initially rooted in symbolic reasoning and rule based systems, AI aimed to replicate human logic and problem solving. The shift in focus emerged with rise of neural networks especially generative AI transformed this arena. The introduction of chatgpt on November, 2022 totally transformed the current landscape. According to Vladimir Putin, "Artificial intelligence is the new revolution, the one who leads in AI will be the ruler of world." AI stands as a transformative force poised to elevate humanity. By unlocking solutions to complex problems, AI truly can contribute to betterment of society.

AI poses immense potential to solve complex problems. Especially generative AI algorithms can produce ~~innov~~ innovative solutions often thinking outside human limitations. This aid in generating new ideas and concepts across various fields

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can address multifaceted challenges.

For example, Fashion innovator Wong develops

World's 1st designer-led AI system. AIDA

uses image-recognition technology to speed

up time it takes for design to go from

first sketch to catwalk (CEO of AIDA Lab,

Calvin Wong, Hong Kong Fashion show 2022).

This innovative technology can surpass

manufacturing, distribution and ultimately

recycling phase. Hence AI has the ability

to solve complex problems.

Along with industrial problems, AI

can also tackle existential threats like

climate change. Climate change is the

buzz word of this century that poses immense

threat to human society. However AI has

potential to develop such technologies that can

tackle problems regarding climate change.

According to Jonah Fisher, environment

correspondent in BBC, AI will be used in

South-west England to predict pollution

before it happens. This will improve water

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quality at seaside resort of Combe Martin.

Sensors placed in rivers and fields can build picture of expected water pollution using AI. Such technologies have the potential to tackle threats of climate change.

Similarly, AI can revolutionise various other sectors as well. The use of AI in healthcare sector can lead to enhanced well-being. Healthcare is a very intricate sector and use of AI can transform it through speedy and efficient solutions.

A Dutch research was done by Dr. Hidde ten Berg and Dr. Steef Kunstjens in Netherlands that ChatGPT diagnosis patients like 'human doctor'. The study fed patient history and asked it to provide diagnosis. By comparing doctor's results ~~of~~, it found out that doctor was correct in 87% cases while ChatGPT in 97% cases. Hence AI could revolutionise medical field and speed up diagnosis.

Furthermore, AI has potential to innovate teaching and learning practices.

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in education sector. It can make education more accessible and adaptive. Education serves as a foundation for future researchers. It equips individuals to conduct experiments and make scientific discoveries through AI. 7.2 percent of physics and astronomy papers published in 2022 involved AI (Economist, How AI can revolutionize science, sep 2023). Hence AI can be utilized to further enhance science and education.

AI can further expand human capabilities through robotic aid and advanced technologies. These technologies have made world explore inaccessible realms and can provide solutions to many problems. The study led by Global Fishing Watch (3Jan, 2024) uses machine learning and satellite imagery to create 1st global map of large vessel traffic and offshore infrastructure. The analysis reveals that 75% of world's industrial fishing vessels are hidden from public view. Hence

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Investing in AI algorithm can find remarkable amount of capabilities previously unexplored.

Despite these positive transformation of AI, it still poses a threat to human race. Widespread AI adoption might lead to significant job development. The problem solving skills of AI can replace problem solving of humans. Tech industry is heavily affected by AI. According to data tracked by Layoffs.fyi, some 212,294 workers in tech industry have been laid off in 2023 alone. Hence AI is replacing human skills and its integration in various industries has led to concerns about job displacement.

Similarly, in order to address existential challenges technological solutions are not enough. It requires overhaul of global policies and behaviors. Hence AI can pose challenges if global leadership is not serious enough to.

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tackle challenges like climate change

A 2020 study by Open AI Researchers, titled "Estimating carbon footprint of deep learning ~~theory~~ training" reveals that training a ~~sig~~ single language model can emit as much CO₂ as a car in its entire lifetime. This contradicts the very purpose of using AI for a sustainable future.

Similarly AI threatens to exacerbate inequalities and undermine critical thinking skills. AI can't replace human judgement. Also in those areas where internet facilities and developments have not reached, leave behind in technological advancement. As of October 2023, 5.3 billion internet users are present worldwide.

This makes 65 percent of global population (Statista, World wide digital population 2023). while rest of 35 percent leaves behind in race of AI, leading to inequalities in society

On the other hand, this

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Technological advancement can lead to global rivalry among global powers. States undermine each other in order to influence the race of AI and a new cold war has started. This cold war has escalated arms race and cyber threats. A report issued by tech-focused think tank, Special Competitive Studies Project warns that generative AI has potential to likely trigger an arms race to adapt the technology for use by militaries or in arms race. Thus, the threat of arms race and escalation due to AI is a growing concern.

However, responsible development and implementation can secure the future of artificial intelligence. Investing in reskilling programs can help adapt to changing job landscape. Tech industry is heavily investing in AI talent and technology. Just days after Microsoft planned to lay-off 10,000 employees in Jan 2023, it also confirmed it was making a

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'multibillion dollar' investment into Open AI
(Samantha Murphy, CNN).

Furthermore, implementation of
of robust regulations and governance
can also mitigate risks of AI. States
should institutionalise AI as part of doctrine
strategy and tactics so that all the
ethical and security concerns regarding
AI can be minimised. For example US National
Security Agency established AI security
centre in 2023, to oversee development
of AI. General Paul Nakasone (Director of
NSA) emphasized the need to "shape the
future of AI technology". Similarly such
security centres should be established in
other sectors as well to oversee risks
associated with AI.

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Moreover, international cooperation is also needed to establish ethical standards.

Just as the space race of cold war era eventually led to joint space missions and international space station. AI race can pave way for shared research

and mutual growth. One such example

is global partnership on artificial intelligence

launched in 2020. GPAI is a multi stakeholder

initiative involving G7 and other countries like

India, Singapore, and South Korea. Such global

level partnerships pave way for shared

growth.

Along with mutual collaboration,

creative ways should be developed to

use AI in responsible way. Especially in

education sector, it's too late to keep

AI out of classrooms. But Teachers have

options to show students how to use

ChatGPT in responsible way. Creative

ways can enhance further engagement

Students have development ~~directive~~ ways

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Teachers have developed creative ways to innovate learning e.g. translating Shakespeare's Othello into modern English to understand text using ChatGPT, creating rhymes about vectors and trigonometric in style of Kanye West through ChatGPT (Olivia B. Waxman, The creative ways teachers are using AI, Time, Sep 2023). Such creative ways can engage students while using AI in responsible way.

In conclusion, AI is a double edged sword. It has potential to save human race but poses threat to human race in some way. But its responsible use can minimise these threats. AI can be shining hero. It can protect our climate, boost healthcare and empower individuals. But like any hero, AI has a dark side as well. As AI automate tasks some jobs might disappear, can perpetuate discrimination and escalate arms race.

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However responsible growth should be ensured so that AI becomes a force for good. By harnessing the power of AI responsibly, a future can be created where technology empowers to solve greater challenges and build better world for all. According to OpenAI CEO Sam Altman, "We have a dramatically more prosperous future; but we have to manage risk to get there."