Artificial Intelligence can be the savior of the human race

OUTLINE

I. Introduction

Thesis Statement:

Humanity is in the throes of social, political, economic and environmental challenges all across the world, which potentially threaten its existence. Fortunately, the advancing AI is emerging as a panacea to heal its diverse nature of afflictions, thereby guaranteeing its survival.

II. Ability of a machine to do tasks, exclusive to humans: Understanding the 'Artificial Intelligence.'

III. A cursory look at various challenges that are threatening humanity's survival

1. Social:

Widespread illiteracy; food shortage; unaffordable goods and services; deepening social stratification; and gender inequality.

2. Environmental:

Rampant carbon emissions; increasing natural disasters, both in frequency and intensity

3. Health Crisis

Emergence of new diseases and lack of resources to cater to the growing health-related needs, particularly driven by overpopulation

3h Products

4. **Economic:**

Rising unemployment; stagnant capital growth and declining agriculture sector due to water scarcity and climate change; energy crisis.

5. **Political:**

Governance crisis; wars and bloodshed; lack of people-centric policies; and flawed economic decisions.

IV. How AI can be the savior of the human race

1. Substantially aiding to environmental sustainability

   a. AI-led technologies to reduce CO_2 emissions by 20% by 2030 (Report by the Digital Europe)

   b. AI advances in '3D Printing' will promote renewable energy

   => Result in a massive decline in climate-caused deaths and destruction

2. AI is driving the global economic pie to grow larger in size; hence feeding more mouths and creating more employment

   a. Bloomberg prediction suggest 'AI market to grow to $ 2 trillion by 2030'

   b. AI startups, AI products and services

3. Reshaping the healthcare sector across the world, raising affordability and accessibility for masses; healing diseases

   a. AI-powered virtual health assistants and predictive analytics

   b. Detection of diseases with higher precision

Products

c. Discovery of cures and new breakthroughs in medical researches

d. Neural Network accurately analyze radiology images

4. Ushering the humanity in an era of rapid socio-economic growth, developing better life standerds and undermining social evils

    a. AI technologies in audit to prevent widespread corruption, increase taxes and enhance public confidence

    b. Policy by numbers enhances effectiveness

    c. Economic development through expansion of trade and market

5. AI is poised to colossally reduce the scourge of illiteracy by promoting accessible and affordable education

    a. Individual tutoring for all, regardless of haves and have-nots stature

                      (WEF report on AI in education)

    b. Views of the Khan Academy's owner regarding the potential of AI to provide accessible to larger number of children at lower rate.

    c. Personalised learning: Standardization is no more

6. AI will help neutralise the challenge of food shortage by boosting the agricultural productivity

    a. Precision agriculture: Automated machinery and predictive analytics

    b. Real-time accurate weather forecasting

    c. Advanced sensoring tools: Soil sensors and disease detectors.

Products

7. Transforming interconnectivity among people, thus giving impetus to globalization
   a. Language barrier is no longer existent
   b. Multiculturalism to heal the fragmented world

8. Increasing the security and safety of masses, thereby reducing crimes and violation of laws.
   a. Paris Olympic 2024: deployment of AI-powered drones for surveillance and security purpose
   b. Safe transportation through driverless vehicles
   c. Advanced security cameras and surveillance systems

9. Enhancing the functionality and effectiveness of judicial system by ensuring impeccable judgements and timely justice.
   a. COMPAS System in US courts
   b. AI-powered virtual lawyers and predictive analytics

10. Promoting improved quality of life
    a. Mind-controlled prosthetics and bionics
    b. Better traffic management
    c. Self-driving cars and auto-repairing tools

11. Raising business's efficiency and effectiveness, thereby reducing manufacturing cost, while increasing affordability for masses
    a. AI-powered robots in factories' operations
    b. AI chatbots for customer service
    c. Strong quality controls allowing no defections

12. Nearly accurate forecasting powers of AI are

are helping in saving human lives from natural disasters

    a. AI-powered emergency system in Japan

    b. AI can even detect formation of hurricane and eruptions of wildfire (NASA)

13. Powerful AI is emerging as a strong deterrent to full-fledged conflicts and wars.

    a. AI-powered deadly weapons: Nukes 2.0

14. AI will cure most diseases and arrest aging process

    a. "First person to live 1000 years has been born"
           ~views of Ray Kurzweil, the Godfather of AI.

15. It will allow expansion of human intelligence, helping it reach far beyond optimal

    a. 'Deployement of microscopic robots into veins' ~Book: 'The singularity is nearer'

V. Conclusion

The human race is facing unprecedented dangers to its existence, at present. It is surrounded by perilous threats including socio-economic, political and environmental. Amidst such sombre clouds looming over the head of humanity, AI is rising on the occasion as a catalyst to insulate its survival by ridding it of its prevailing and impending challenges.

"The first person to live for 1000 years has been born," writes Ray Kurzweil - the Godfather of AI - in his book, titled 'The singularity is nearer.' In author's view, the AI technology is going to advance to such a level that it will arrest the aging process of humans, enabling them to live for decades. Though it appears to be a lofty, far-fetched foretelling, it is, however, true that the emerging AI technology is going to reshape the world. The humanity is already at the cusp of a new revolution, driven by AI. With booms of this technology, a lot of sinister challenges plaguing the humanity are going to stem.. It will propel the world to overcome a litrny of ongoing or impending issues, which are endangering the humanity's survival. These perilous challenges include socio-economic, political and environmental. In social domains, AI will potentially bridge the existent gender gap, make education widespread, and address health sector crisis. In particular, advancing AI technology will desettle the deeply entrenched social stratification by having affordability of and accessibility of money for goods and services being produced by businesses, especially through cost-cutting and automation. Similarly, AI is poised to strengthen and

consolidate political domain by overhauling the governance structure through empowering judicial system, increasing security and surveillance, assisting in formulation of effective and people-centric policies, and educating masses at a large scale. Likewise, this technology is going to substantially aid in efforts towards addressing the climate crisis and ensuring environmental sustainability by helping businesses and individuals reduce carbon emissions and promoting renewable energy in long-run. The best AI is going to do for the human race is its contributions in economic uplift of nations and individuals. This technology is on the way to expand global trade manifold and increase individuals' income by enhancing their efficiency and productivity, while presenting them with ever more opportunities. Furthermore, this AI technology will address the challenge of food shortages by immensely increasing the agricultural productivity and reduce the water scarcity by promoting efficient use of water both at domestic level and commercial/agricultural level. In fact, the human race is confronted with a large number of threats to its survival; however, AI is emerging as its savior.

Before bringing into account a diverse nature of threats that humanity is facing to its survival, it is very necessary to

AI and Environmental Sustainability

AI is helping the world make environment sustainable. Presently, global warming and climate change have become existential threat for humanity. There is an unprecedented rise in the temperature level, and the frequency, and intensity of disasters have also grown manifold, necessitating humans to tackle the environmental problem urgently. In this struggle, AI is also playing a leading role. With help of this technology, agriculturists are utilizing their resources in more efficient manner, especially pesticides and fertilizers, which are nature hazardous. Similarly, AI is also helping businesses to make efficient use of energy and identify most effective and impactful method of decarbonizing their operations. Digital technologies will lessen CO_2 emissions by 20% by 2030, according to a recent report by the Digital Europe. Therefore, AI is significantly contributing to environmental sustainability.