

Is Artificial Intelligence Dangerous to Human

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Abstract

Artificial Intelligence (AI) and its augmented systems, such as Machine Learning (ML) and Deep Learning (DL), have the potential to bring about both benefits and challenges to humanity. On the challenging side, for example, recently, experts, including the heads of two companies, "Open AI" and "Google DeepMind," have warned that artificial intelligence may lead to the extinction of the human race. A statement signed by dozens of experts has been published on the "Artificial Intelligence Safety Center" website.

At the same time, AI can be highly beneficial in various domains, such as healthcare, transportation, and communication, and there are concerns about its potential risks and dangers. It is important to note that AI is not inherently dangerous, but how it is developed, deployed, and used by humans can determine its impact.

Keywords: Artificial Intelligence, Human Intelligences, Technology and Society, Industry and Artificial Intelligence, Machine Learning, Deep Learning, Quantum Computer, Super Artificial Intelligence

Introduction

While Artificial Intelligence (AI) has a great deal of promise to assist people and improve humankind in many ways, there are also concerns that should be considered. "I thought it was way off that this stuff could actually become smarter than people." Geoffrey Hinton, dubbed "the godfather of AI" and one of Google's top artificial intelligence researchers, declared after quitting his position in April to raise awareness of the risks associated with this technology: "Obviously, I no longer think that. The risk includes, among other things, the threat to employment, security, personal data privacy, and autonomous weaponry. the last few months, the creation of the most advanced AI has raised various issues that are the subject of heated debate among specialists.

Do we comprehend the effects of our actions in pushing the limits of AI, for example?

Do we understand how AI is evolving and how it will be used to benefit humanity?

Is artificial Intelligence (AI) a threat to Human intelligence (HI), or potentially, can robots replace people, and does that prove it by working without direct human control? Can sophisticated artificial intelligence cause significant issues and open the door to various extrapolations?

And finally, what is the ultimate aim of the development of AI and its sub-systems such as Machine Learning (ML) and Deep Learning (DL)? [1-2].

What will happen when AI can improve itself? In fact, we have no way of knowing what the AI will do or how we can control it. According to Hinton, "This is because super intelligent AI (which by definition can surpass humans in a broad range of activities) will—and this is what I worry about the most—be able to run circles around programmers and any other human by manipulating humans to do its will, it will also have the capacity to act in the virtual world through its electronic connections, and to act in the physical world through robot bodies. This is known as the "control problem" or the "alignment problem."

Financial Crises: The financial industry has become more receptive to AI technology's involvement in everyday finance and trading processes. According to Mike Thomas "As a result, algorithmic could be responsible for our next major financial crisis in the markets [3]. While AI algorithms aren't clouded by human judgment or emotions, they also do not consider contexts, the interconnectedness of markets and factors like human trust and fear. These algorithms then make thousands of trades at a blistering pace with the goal of selling a few seconds later for small profits. Selling off thousands of trades could scare investors into doing the same thing, leading to sudden crashes and extreme market volatility.

In this article, we consider the possibility of Artificial Intelligence Systems becoming into a threat to humanity and their creators, Human Beings, as opposed to continuing to serve as a tool to help us solve our issues and live better lives. For instance, putting silicon chips in the brains of a privileged caste would reveal the vast divide between "singularity" proponents and some philosophers. It enables readers to comprehend and continue this open discussion on AI, which poses specific ethical concerns for which meaningful solutions are still in their infancy. It does so with the help of insights from mathematics, cognitive neuroscience, and philosophy.

Some of the Potential Risks Associated with AI Include

Job displacement: AI and automation technologies have the potential to automate specific tasks and jobs, which could lead to job losses in specific industries, and economic disruption. For example, Goldman Sachs recently announced that 300 million jobs around the world could be automated in some way by the newest wave of artificial intelligence that has spawned platforms like Chat GPT [5]. However, historically, technological advancements have also created new jobs and opportunities.

Bias and Fairness: AI systems learn from data, and if the training data is biased, the AI algorithms may perpetuate those biases, leading to unfair outcomes and discrimination. In such cases AI could even kill millions with zero consciousness whatsoever. Efforts are being made to address this issue through improved data collection, algorithmic transparency, and fairness considerations. Nevertheless, once AI systems are built into robots, they will be able to act in the real world rather than only the virtual world, and that could be game-changing since they can be influenced by external factors surrounding them.

Privacy and Security: AI systems often require access to large amounts of data, which raises concerns about privacy and data security. If not adequately protected, personal information and sensitive data could be at risk of misuse or unauthorized access.

Autonomous Weapons: There are concerns about the development of autonomous weapons powered by AI. The use of such weapons could raise ethical questions and the potential for unintended consequences or loss of human control.

Superintelligence and Control: Theoretical scenarios involving the development of Super Intelligent AI or Super Artificial Intelligence (SAI) systems that surpass human intelligence raise concerns about the ability to control such systems and their potential impact on humanity [4].

Dependence on AI: The most significant danger is reduced creativity and critical thinking of humans. Loss of human touch is another outcome. There is no question that AI can be more accurate in routine automation, but this will ultimately lead to diminished human touch and creativity.

It is worth noting that researchers, policymakers, and organizations are actively working on addressing these challenges. Many are advocating for the development of responsible AI systems, emphasizing transparency, accountability, and ethical considerations in AI research and deployment.

Overall, while there are potential risks associated with AI and its sub-system ML and DL, it is crucial to ensure that AI technologies along with its augmented components of ML and DL are developed and used in a way that prioritizes human well-being, addresses biases, respects privacy, and maintains human control over critical decision-making processes.

Society and Technological Changes

Because of their close ties, society and technology frequently alter in response to one another. By changing the way people live, work, communicate, and connect with one another, technological developments have the ability to fundamentally alter civilization. Similarly, societal shifts can influence the creation and uptake of new technology. Several instances of how society and technology might interact are given below [6].

Connectivity and Communication: The development of the internet and digital communication technologies has fundamentally changed how people engage and connect with one another. Global communication has been simplified and made easier by the development of social media platforms, texting apps, and video conferencing capabilities.

Automation and the Workforce: Artificial intelligence (AI) and automation technologies have had a major impact on the workforce. Automation has improved efficiency and production across a wide range of industries, but it has also sparked worries about job loss and the need for new skills. In order to respond to these developments, society must retrain its workforce and provide new job opportunities.

Information Access and Knowledge Sharing: The internet has democratized information access and made it possible for people to learn about a wide range of subjects. People may now study and share knowledge more easily thanks to online resources like Wikipedia and educational websites. However, the spread of false information and the digital divide present difficult issues that society must confront.

Healthcare and Biotechnology: Biotechnology and medical advancements have boosted life expectancy and improved healthcare outcomes. Healthcare delivery has changed as a result of innovations like telemedicine, electronic health records, and tailored medicine. However, access to healthcare, data privacy, and ethical considerations continue to be significant societal issues.

Environmental Sustainability: In order to address environmental issues, technological advancements are crucial. Climate change can be lessened and a more sustainable society can be

promoted by using clean energy technologies, waste disposal methods, and sustainable transportation options. The creation and uptake of such technology may be influenced by societal awareness of and desire for environmentally responsible practices.

Privacy and Security: Concerns regarding privacy and security have increased in the digital era. Data breaches, identity theft, and spying have become more problematic as a result of people's increased reliance on digital platforms for communication, financial transactions, and the storing of personal information. A societal discussion on how to balance the advantages of technology with people's rights to privacy is ongoing.

Impact of Technology of Artificial Intelligence on Society and Human

Artificial intelligence (AI) and its sub-systems of ML and DL has a substantial and far-reaching impact on society and human life. The following are some significant areas where AI has had an impact:

Automation and work Replacement: Certain work responsibilities and duties may be replaced by AI-powered automation. While automation can boost efficiency and output, it also raises questions about job loss and the need to retrain or upgrade workers' skills. By helping people get ready for new career prospects and encouraging lifelong learning, society must navigate this change.

Increased Productivity and Efficiency: AI technology can evaluate enormous volumes of data and carry out difficult jobs more quickly than people. Productivity has increased as a result in a number of industries, including manufacturing, logistics, finance, and healthcare. Processes may be automated, resource allocation can be optimized, and decision-making insights can be provided via AI-powered systems.

Customization and Personalization: AI systems may examine user preferences and behavior to present tailored experiences. This is clear from content curation, targeted marketing, and recommendation systems employed by online platforms. The manner that goods and services are customized to match the unique requirements and tastes of people has changed as a result of AI-driven personalization.

Healthcare and Medicine: AI have significantly improved both of these fields. Medical data can be analyzed by machine learning algorithms to help with diagnosis, drug discovery, and therapy planning. Medical imaging technologies that use AI are highly accurate in spotting anomalies. In order to offer individualized health insights and early disease diagnosis, wearable technology and health monitoring systems also use AI.

Ethical Issues: The creation and application of AI bring up significant ethical issues. It is necessary to address issues with prejudice in AI algorithms, privacy problems, and the possibility for AI to be misused. Building trust and preserving societal well-being depend on AI systems that are transparent, accountable, and fair.

Human-Machine Interaction: AI has revolutionized how peo-

ple communicate with machines. People may now connect with technology more easily thanks to the increasing prevalence of voice assistants, chatbots, and virtual agents. More natural and seamless interactions between humans and machines are made possible by computer vision and natural language processing technology.

Social and Cultural Impact: The development of AI technology is influencing social and cultural dynamics. Social media platforms and AI algorithms shape our perspective by influencing the content we consume, which may result in filter bubbles and echo chambers. Deep fakes produced by AI pose questions about media credibility and false information. The ramifications of these technologies must be considered by society, and strategies to lessen their detrimental effects must be developed.

It is imperative that society take on the issues and opportunities that AI technology presents. The development and application of AI can be shaped by ethical standards, policy frameworks, and public participation in a way that benefits society while reducing hazards. Harnessing the full potential of AI Systems (i.e., AI, ML, and DL) for improving human lives requires responsible and inclusive AI practices.

Further Analysis of AI threat to Society and Human

While artificial intelligence (AI) has a great deal of promise to benefit society, it also poses several difficulties and threats to people. The following are some potential risks linked to AI:

Job Displacement and Economic Inequality: Automation fueled by AI has the potential to cause job displacement, which could result in unemployment and economic inequality. Rapid AI deployment could widen the gap between those who benefit from automation and those who lose their employment if it is not properly handled.

Bias and Discrimination: The data that AI systems are taught on determines how impartial they are. AI systems can reinforce and exacerbate societal biases and discrimination if the training data is biased. This could worsen already-existing social disparities in areas like hiring procedures, criminal justice, and resource access.

Privacy and Surveillance: The widespread application of AI technology frequently entails the gathering and examination of enormous volumes of individual data. This gives rise to worries about privacy invasion and surveillance. Individual privacy rights and civil freedoms may be jeopardized by improper data processing, data breaches, or the use of AI for mass monitoring.

Autonomy and Ethical Decision-Making: As AI systems improve, they may be given the responsibility of making morally relevant decisions. When AI systems are not accountable or transparent about how they make decisions, problems can occur. Decisions that are prejudiced or unethical may be made as a result of a lack of transparency and human monitoring, which could have negative effects.

Security and Malicious Use: Cyberattacks, disinformation operations, and the development of complex deep fakes are just a few ways that AI might be used maliciously. Risks to both individuals and society can result from using AI's capacity to produce realistic material and mimic human behavior for fraudulent, social engineering, or political purposes.

Dependence and Loss of Human Talents: A dependence on AI systems that is too great may result in the loss of some human abilities and talents. The risk of human abilities in crucial areas like critical thinking, problem-solving, creativity, and empathy declining as more duties are taken over by computers is present.

Existential Risks: Though more hypothetical, certain worries have been expressed regarding how AI will affect mankind in the long run. These worries include situations in which AI is more intelligent than humans, which could have unforeseen repercussions or cause a loss of control. In order to avoid potential existential hazards, it is essential to ensure effective safety controls and moral guidelines.

A multidisciplinary strategy combining cooperation between engineers, legislators, ethicists, and the larger society is necessary to address these dangers. To reduce the possible negative effects of AI and assure its ethical and productive usage, it is crucial to establish clear rules and laws, encourage accountability and transparency in AI systems, and increase public knowledge of AI.

Conclusions

By employing strategies that human grand masters had never thought of, an AI learnt to win at chess. Through analysis of molecular characteristics that human scientists did not fully comprehend, another AI discovered a novel antibiotic. Jets driven by AI are now outperforming skilled human pilots in computer-simulated dogfights. AI is becoming available in a variety of industries, including searching, streaming, healing, education, and many more. This is changing how people perceive the world.

Many global businesses, including banking and finance, pharmaceuticals, the automotive and medical technology sectors, manufacturing, and retail, have been touched by artificial intelligence (AI) and its sub-systems (i.e., ML and DL). However, it has just recently started on its quest toward more affordable, accurate, and quick predictions that guide critical business choices. When prediction is used to the fullest, industries change, and disruption results from those changes.

Finally, as conclusion, we need to ask ourselves, is “**Artificial Intelligence a Threat or Not**”?

The issue of whether or not AI poses a threat is complicated and varied. AI is a tool that can be utilized for a variety of tasks, it is neither intrinsically good or evil. The ways that AI is created, implemented, and governed have the potential to pose risks. Here are some crucial things to remember:

Misuse and Malevolent Intent: AI can be abused or exploited with bad intent in spying, cyberattacks, and misinformation campaigns, among other things. Concerns regarding potential abuse and the loss of human control are raised by the development of AI-driven weaponry or autonomous systems.

Bias and Discrimination: AI algorithms have the potential to

amplify biases in data that are used to train them if these biases are not appropriately handled. This may lead to unequal outcomes in the hiring, lending, and criminal justice processes. Fairness and bias reduction in AI systems are essential to averting these problems.

Work Replacement and Economic Impact: AI-driven automation may replace some work roles, which could result in unemployment and economic inequality. It's crucial to remember, too, that AI can also boost productivity across a range of industries and generate new job opportunities.

Privacy and Security: The extensive use of AI necessitates the gathering and processing of enormous volumes of personal data, which raises questions about data security and privacy invasion. The adoption of AI systems must take data protection and personal information security into account.

Making Ethical Decisions: AI systems are capable of making choices that have important ethical repercussions. A biased or immoral outcome may result from the absence of accountability, transparency, and human oversight in AI decision-making systems.

It is crucial to understand that the risks posed by AI and its augmented system of ML and DL can be mitigated by using ethical development and deployment methods as well as the proper laws and policies. It is possible to minimize potential risks and increase the positive effects of AI for society by encouraging openness, accountability, justice, and ethical considerations in AI systems. Furthermore, promoting cross-disciplinary cooperation's and public involvement can aid in navigating the complicated issues and guarantee that AI is created and applied in a way that is consistent with human values and social well-being.

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