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A Study on Advanced Artificial Intelligence Threat to Human Being

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ABSTRACT

Artificial Intelligence is the process of human thinking which is enabled by a machine. Artificial Intelligence is the simulation of human intelligence in machines which is programmed or designed to think as like a human being. The term “Artificial Intelligence” was coined by an American computer scientist pioneer and inventor named John McCarthy in 1956. The cognitive scientist coined the term in his 1955 proposal for the 1956 Dartmouth Conference, the first artificial intelligence conference. The objective was to explore ways to make a machine that could reason like a human, was capable of abstract thought, problem-solving and self-improvement. The inkling of artificial intelligence is based on the human philosophy that whether an artificial intelligence can be more intelligent as the human. In present research paper we are focusing on advancing artificial intelligence and related technology systems will enhance human capacities and empower them and due to which the artificial intelligence may take over the jobs and whether they will widen economic divide in the entire world. The advancing artificial intelligence technology system may also lead to social upheaval.

Keywords: *Advanced Artificial Intelligence, technology, machine.*

I. INTRODUCTION

The term “Artificial Intelligence” actually goes back many decades, dating back to the year 1955 when John McCarthy first coined the term. Artificial Intelligence is a way of making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent humans think. According to the father of Artificial Intelligence, John McCarthy, it is “The science and engineering of making intelligent machines, especially intelligent computer programs”.

Artificial Intelligence is accomplished by studying how human brain thinks, and how humans learn, decide, and work while trying to solve a problem, and then using the outcomes of this study as a basis of developing intelligent software and systems.

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As artificial intelligence is used more often in products and services, there are some significant considerations when it comes to users' trust in the Internet. Several issues must be considered when addressing artificial intelligence, including, socio-economic impacts, issues of transparency, bias, and accountability; new uses for data, considerations of security and safety, ethical issues; and, how artificial intelligence facilitates the creation of new ecosystems.

(A) Objective Of The Study

- To find the impact of advanced artificial intelligence on human being
- To assess the socio-economic impacts on the society

(B) Impact of advanced artificial intelligence

Artificial Intelligence has dramatically improved our world in ways unimaginable, but there are many concerns regarding the impact it can have on employment and the credibility of workforce. There are predictions Artificial Intelligence which tell us about the possibility of millions of people facing job loss due to advanced artificial intelligence. Technology-driven societal changes, like what we're experiencing with Artificial Intelligence and automation, always engender concern and fear and for good reason. A two-year study from McKinsey Global Institute suggests that by 2030, intelligent agents and robots could replace as much as 30 percent of the world's current human labor.

McKinsey reckons that, depending upon various adoption scenarios, automation will displace between 400 and 800 million jobs by 2030, requiring as many as 375 million people to switch job categories entirely.

Artificial Intelligence may also impact the division of labor on a global scale. Over the past several decades, production and services in some economic sectors has shifted from developed economies to the emerging economies, largely as a result of comparatively lower labor or material costs. These shifts have helped propel some of the world's fastest emerging economies and support a growing global middle class. But, with the emergence of Artificial Intelligence technologies, these incentives could lessen. Some companies, instead of offshoring, may choose to automate some of their operations locally. Due to this shift people loss their job as the cost of the Artificial Intelligence technologies is expensive in the initials and later it can work at a time of many people. This naturally is cost effective and numbers of employees are reduced.

(C) Methodology

Primary data was collected from the respondents by raising a questionnaire. The primary data is collected through online questionnaire and a total of 56 respondents answered the questionnaire. The questionnaire was circulated to various respondents by sending the respondents the invitation through link to different age group. Both the gender male and female respondents have equally participated in answering the questionnaire. The respondents are students, academicians, teachers, businessmen and also from industry group who play a vital role in understanding advanced artificial intelligence impact on the economy and societal change.

Secondary data is also obtained from publication, journals, books etc.

II. ANALYSIS OF THE QUESTIONNAIRE

(A) Will Advanced Artificial Intelligence Cause Job Lose

Artificial intelligence is no longer a thing of science fiction, it exists in the world all around us, automating simple tasks and dramatically improving our lives. In 1961, President Kennedy said, “the major challenge of the sixties is to maintain full employment at a time when automation is replacing men.” In the 1980s, the advent of personal computers spurred “computer phobia” with many fearing computers would replace them.

In the past, technological disruption of one industry didn’t necessarily mean the disruption of another. 1. The underlying technology of the robot might be adapted, but at best that still only addresses manufacturing.

The compiled data has been analysed using pictorials like pie chart

Will advanced artificial intelligence cause job lose

56 responses

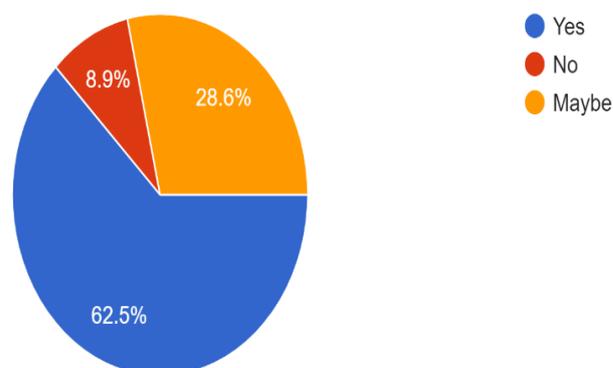


Fig 1

The above graph represents the loss of job due to advance artificial intelligence. The respondents have been categorized in the forms of the colors and about 62 % have stated that due to progressive artificial intelligence there would be job lose and about 28.6 % have indicated that there might be job lose and very few percentage of individuals (8.9%) have indicated no. Hence majority of the individuals indicates that there would be threat to the job if in case there is progress in the artificial intelligence.

The result shows that due to advance artificial intelligence people will lose their jobs and this will result in societal issues and also directly affect the economy.

(B) Would Advanced Artificial Intelligence Have The Potential To Replace Human Beings

Humans created more jobs and reinvented themselves with the help of new technologies. Google's AI search algorithm has transformed the research process. There is no need of crawling the libraries and to know the decimal system. Google crawlers and algorithms deliver what you need with strange accuracy. You get all the best query results through Google's ranking system, without any delays for thought or clumsy Boolean query strings.

AI makes us more effective and more efficient. It gives us back the time we need to do creative work, including reviewing our search results and assimilating the information. Today the AI technology is being used to perform tasks that range from trivial to monumental. Whether it's enhancing mobile photography with AI cameras or financial asset management, AI has some truly amazing applications in various fields of human life. But as the applications of AI increases, more and more people are starting to wonder if it is going to erase the importance of human skills and experiences in different tasks.

Would advanced artificial intelligence have the potential to replace humans

56 responses

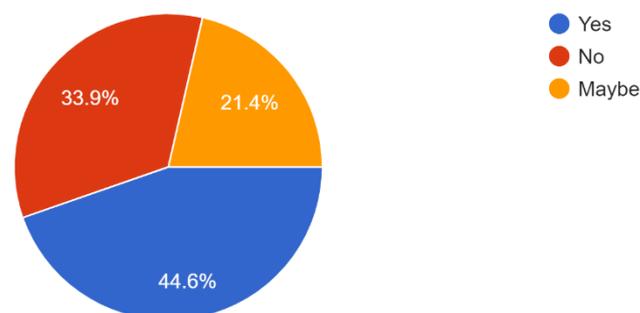


Fig-2

The chart indicates whether the artificial intelligence replace humans. This chart clearly indicates that there would be replacements of humans in the variety of fields. This question was answered by 56 individuals, Majority, about 44.6% of them indicated that there would be replacement and 33.9% of them stated that there will be no replacement of human beings by artificial intelligence. This indicates that advanced artificial intelligence will replace human being in all area of work and this leads to loss of job and effect the economy at large of any country.

(C) Which Section Of People Will Be Effected From Advanced Artificial Intelligence

Advanced artificial intelligence is different because it can be applied to virtually any industry. When most people think of the connection between technology and jobs, they think of robots and automation taking over relatively unskilled jobs like factory work. And thus, the biggest toll from these technological advances would be on hard-hit manufacturing industries. But a new wave of developments in artificial intelligence may have a greater effect on high-skilled jobs and high-tech knowledge regions as well.

Advanced artificial intelligence will affect a wide array of work and jobs, its largest effects will be confined to a much smaller segment of jobs. Overall, artificial intelligence will, in some way, influence more than 95 percent of jobs.

Which section of people will be effected from advanced artificial intelligence
56 responses

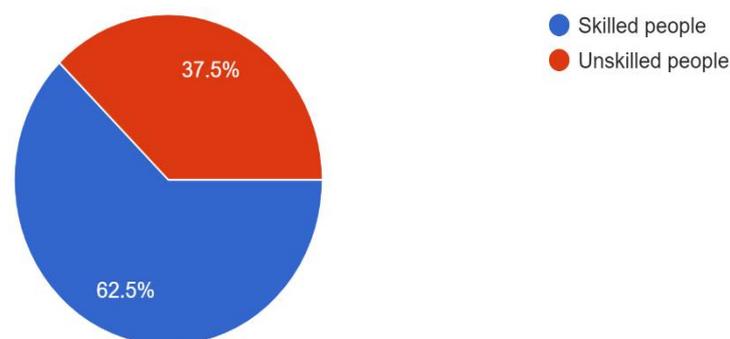


Fig-3

The above chart clearly depicts that skilled workers (about 62.5%) will be more effected from the advanced artificial intelligence whereas, 37.5% unskilled workers would be affected. In this data the skilled workers as well as unskilled workers both are affected, majorly the skilled sector would be affected more. A number of lower-skilled occupations rank highly, like

farming, manufacturing, mining, and construction. But also exposed are high-skill jobs like professional, scientific and technical services; information; and finance and insurance.

(D) Advanced Artificial Intelligence Vulnerable For Data Theft

Artificial intelligence systems are systematically vulnerable to a new type of cybersecurity attack called an “artificial intelligence attack.” Using this attack, adversaries can manipulate these systems in order to alter their behavior to serve a malicious end goal. As artificial intelligence systems are further integrated into critical components of society, these artificial intelligence attacks represent an emerging and systematic vulnerability with the potential to have significant effects on the security of the country.

Unlike traditional cyber-attacks that are caused by “bugs” or human mistakes in code, AI attacks are enabled by inherent limitations in the underlying AI algorithms that currently cannot be fixed. Further, AI attacks fundamentally expand the set of entities that can be used to execute cyber-attacks. For the first time, physical objects can be now used for cyberattacks (e.g., an AI attack can transform a stop sign into a green light in the eyes of a self-driving car by simply placing a few pieces of tape on the stop sign itself). Data can also be weaponized in new ways using these attacks, requiring changes in the way data is collected, stored, and used.

There are five areas most immediately affected by artificial intelligence attacks: content filters, the military, law enforcement, traditionally human-based tasks being replaced by AI, and civil society. These areas are attractive targets for attack, and are growing more vulnerable due to their increasing adoption of artificial intelligence for critical tasks.

Is advanced artificial intelligence vulnerable for data theft
56 responses

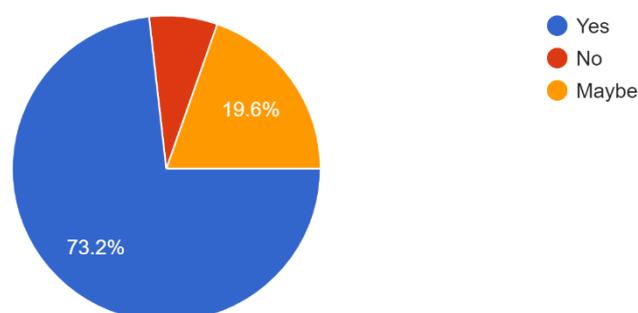


Fig-4

The above chart clearly indicates that advanced artificial intelligence would lead to data theft. About 73.2% of individuals states that there would be data theft because of the progress in

artificial intelligence. About 19.6 % indicates that there might be data theft because of advancement in artificial intelligence. This indicates that how an obscure can create problem within artificial intelligence

(E) Advanced Artificial Intelligence Is Harmful To Human Being

Some notable individuals such as legendary physicist Stephen Hawking and Tesla and SpaceX leader and innovator Elon Musk suggest artificial intelligence could potentially be very dangerous. Artificial intelligence is a tool, and like many tools, its danger is fully dependent on humans and the ways that they use it. One way that artificial intelligence can be dangerous is when it is used to create autonomous weapons. Currently, almost every large nation is spending a lot of resources on the creation of autonomous weapons that can be used in upcoming conflicts. Another way that artificial intelligence can be dangerous is when it is applied in societies without due consideration and analysis of the long-term ethical and moral implications that it might create. It is now possible to track and analyze an individual's every move online as well as when they are going about their daily business. Cameras are nearly everywhere, and facial recognition algorithms know who you are.

Can advanced artificial intelligence be harmful to human beings

56 responses

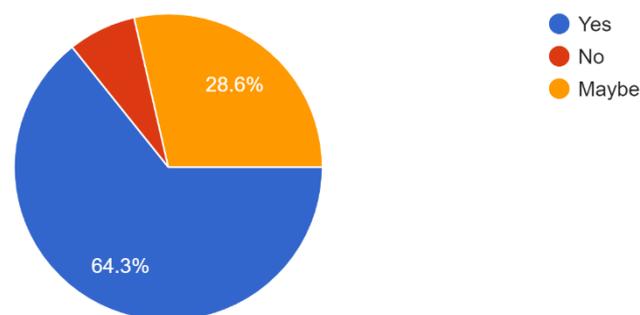


Fig-5

The data shows that whether the advanced artificial intelligence is harmful to human beings and this data clearly indicates that about 64.3% of individuals responded that human beings would be harmed due to the advancement in artificial intelligence and 28.6% individuals states that there might be threat and about less than 15% data indicates that there would not be any threat to human beings. This shows that any powerful technology can be misused and will be dangers to mankind.

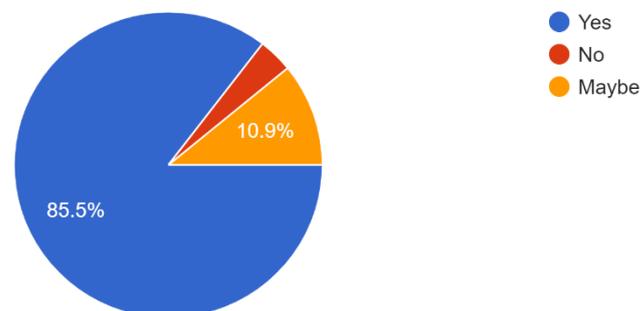
(F) Advanced Artificial Intelligence Change The Future

Artificial intelligence is impacting the future of virtually every industry and every human being. Artificial intelligence has acted as the main driver of emerging technologies. Technology is changing society. Digitization is challenging the way we live. These changes create conveniences and ways of problem-solving.

“Artificial intelligence is that activity devoted to making machines intelligent, and intelligence is that quality that enables an entity to function appropriately and with foresight in its environment.” Nils J. Nilsson

Many of our technology-related problems arise because of the unforeseen consequences when apparently benign technologies are employed on a massive scale. Hence, many technical applications that seemed a boon to mankind when first introduced became threats when their use became widespread

Will advanced artificial intelligence change the future
55 responses



The above data clearly indicates whether artificial intelligence is the future new normal. The data indicates that about 85.5% individuals are stating that the artificial intelligence would change the future and about less than 10% states that there would be no changes as such.

III. CONCLUSION

AI is changing the way we live and work, and AI is learning to transform the world in ways we can't even imagine. Now the great challenge of AI is to find ways of representing the common sense or we may need to develop new machines that can support the complexity of human thought, knowledge and experience that enable people to carry out everyday activities. Some Researcher's think that AI could grow so strong that it would become problematic for human to handle, by this tremendous growth humans will seem to be threatened and lost in the world of AI. In an interview Prof Stephen Hawking, one of Britain's pre-eminent scientists,

has said that efforts to create thinking machines pose a threat to our very own existence and he still added that "The development of full artificial intelligence could spell the end of the human race."

To conclude AI encompasses a inimitable threat to human society as it is expected that it will change that AI will change the world forever AI will certainly destroy jobs as advanced AI learn to do tasks that previously required human input.

Based on the exploration of the current paper, we identified the following implications:

1. AI has the potential/influence in the decision making in different areas of society such as finance and education, and it's highly likely that the first machine learning models to be used will be biased.
2. AI has the potential to cause unparalleled rapid economic and social interruption.
3. Dependence on artificial agents intensifies the risk of diminished resilience.
4. They should also be designed to be secure against the efforts of hackers to change the algorithms behind the artificial intelligence.
5. Humans must be in control: Any autonomous system must allow for a human to interrupt an activity or shutdown the system (an "off-switch"). There may also be a need to incorporate human checks on new decision-making strategies in AI system design, especially where the risk to human life and safety is great. How we use technology—how we transform it from an idea into a solution—determines whether potential benefits outweigh harms. "Technology is neither good nor bad; nor is it neutral." It is how we use technology that matters, for what ends, and by what means is it employed, as both require contemplation. There are choices to be made and compromises to be struck to ensure that the benefits are realized while minimizing, or suitably managing, the problems.
6. Every expert system and robots should be under critically assessed and psychological tested regularly to avoid "Distinctiveness".

We need a framework to guide the development of AI-powered applications with basic rules and those specifications which will guarantee that there is reliability, transparency and ethical alignment and society needs to understand the technology and how the AI works, How the AI is improving and evolving the human lives and also the risks posed behind it. There is never ending chase from the machines to humans, it will run in an unparalleled way but we need a tough strategy with focus on education, the markets and social systems. We also require a

stringent, right rules and dogmas to avoid the situation of disproportional gathering of power and control over data and technology.
