

The ascendancy of Consciousness on Artificial Intelligence with inevitable psychology.

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Abstract: Talking about consciousness and Artificial Intelligence, like two sides of a coin, are seen together but are not together. When combined it becomes a mastery that can take over the world. Consciousness is still been not defined by any researcher or scientist. Heuristically, we know that Artificial Intelligence is booming and technology being ever fastest-growing field, but with this, there are many factors which are been neglected and can cause some drastic changes and severe problems to mankind. Thinking that Artificial Intelligence is not beyond humans, there are times where things are neglected but the fact that AI is showing prominent signs that it has become far more superior than what it has been trained and tested on. Often there are some series or patterns of outputs observed, which were not been trained to the machine but were formed by the algorithm matches might be difficult to understand for humans as well. This paper discusses the thoughts which are alive in everyone's brain but are unanswered and are finding a path to reach out a standard solution. Aspects of society being the oldest of one, which was formed by humans. How will it be if the "SOCIETY" is seen in the world lead by the robots becoming dominant and ruling over humans? Can the consciousness which is still abstract or fugitively subjective in humans work similarly in robots as it is felt within us? If it ever will, Would humans live their lives with freedom? Or will it be minimal and not according to themselves but according to the robots? Is it right to expound it in one word as Singularity? As it is still an unknown entity but also a toss of ambiguity. Researchers are quite near to develop self-learning robots, but hidden patterns of them communicating amongst themselves speculate more perplexed theories which are making them more complex for scientists and researchers. Deep-down significantly knowing that things are moving in a direction which are casting the risk factors but also if you flip and see the other side, it shows the positive results and the growth of Intelligence which is helping each individual to grow in their way.

Keywords: Artificial Intelligence, Conciousness, Philosophical zombie, Singularity, Society.

Consciousness, an undefined word.

According to every individual, the thought of consciousness keeps on changing. Giving my perspective over this, Consciousness is having awareness of their unique thoughts, all the memories, various feelings, sensations, and surroundings. A neuropsychologist (Nicholas Humphrey) states that Colours, sounds, tastes can seem unspeakably wonderful. But how do you feel and understand this? Inside my head, my brain is tracking the stimuli that reach my body's surface and this is a purely physical process but my experience of it seems to be in some kind of feeling.

For example, pain. Suppose I prick my finger my brain would immediately respond to signals with an internalized hurt response – what scientists call the neural correlate of pain. From the objective point of view, this pain is nothing more than the activity of nerve cells but within me, it is just a subjective point of view. This seems to be only conscious suffering.

So, the question emerges how on one side of the equation real matter and on the other side non-physical matter could be present? Here lies the gap which is said as the explanatory gap. What happens when I prick my finger is some chemical reaction takes place in the brain and then I can feel pain. But why the pain? Why can't it be felt as happiness? It seems to be like a theatre of my mind where I can feel pain but that is just what appears to me. So, what is present is not the reality of pain but the appearance of pain. For instance, we can think about Richard Gregory's real impossible triangle, here we don't need to explain the existence of the impossible triangle, the need is just to explain the existence of something that looks like an impossible triangle. Consciousness changes people's psychological profile, it feeds us with joy and life, our fear of death, and especially it makes us respect the other conscious beings. We live alongside. But from Locke's perspective, he states that any certain idea perhaps cannot be said initiated in mind up until one is conscious about it. But human newborns have no conceptions of Morals or God, Logic, or the truths we believe in mathematics, and to assume that it is that way, notwithstanding obvious evidence to contrary, is solely an unwarranted presumption to save a position. Locke's II Book is in a positive sense asserting that the source of knowledge is primarily, sensing experience, for example, the cold breeze, the taste of salt. Then is the reflection, which can be explained as a person is knowing whether one is feeling sad or happy, which gives a certain sensation.

This is not exactly them, as in particular but the instance of knowledge in that narrow sense but the mind is been provided the material of knowledge, and this material is been called as knowledge, further said to be Ideas. Ideas are objects, not relating them with the sense that they are physical objects but the come before the mind, in a sense that they represent the physical objects to consciousness.

If we consider Hemispherectomy as an example here, it is a surgery done on newborn babies only, where half part of the brain is been removed if the baby is having seizures as it is the only solution for it. But then the questionaries, if you can live with half of your brain then can I take two empty brains and take two half brains of one person and fit them into those two divided into equals. Having consciousness which person will be who? Are they both going to be the same? Are they going to feel alike? or are they going to be just two different normal individuals? Is it even possible? The questions are immeasurable, but just by imagining and understanding that when we are looking at an object or a person have you ever thought that what you feel is kind of what it feels like to be yourself. It feels like you are someone inside a body looking out with the help of eyes and no single human on this earth can ever see the world from the position you are seeing it, this awareness of having your own experiences and having your thoughts over it is what we can state as consciousness.

Now as we have an idea of human consciousness let's see can AI have human-like consciousness?

Philosophical zombie, a speculative being who is physically uniform and is not distinguishable from a normal human but is not having consciousness, sentience, or qualia. So it is like a normal human but doesn't feel anything. It just automatically responds like a robot in the way an Elliot does, the heavier part of this is that even science cannot answer questions related to this so what we can infer is from the psychology of disorders of consciousness, by taking a common example of Insignia in psychology which is a condition where patients lose their ability to move their left hand and when crosschecked while the introspection, when they are asked to raise their right hand they are ok with it and they raise their right hand, but when said to raise their left hand, they say ok but are not able to raise it, having so still they never accept that they are not able to do so. They generally give a fake reason or try to run us around the bush by confabulating us saying Oh, I didn't feel like it. So this is where the consciousness in humans plays the role. When and how should we react adroitly, which an AI cannot. Envisaging a person walking around in a swamp and suddenly gets struck by a thunderbolt and gets entirely burnt to a crisp dissolved into smithereens, but considering if at the same moment there was a second bolt of lightning causing a bunch of

atoms and molecules a second arrange them having the same configuration that the person had would it be the same person? Or if a surgeon starts removing cells from one human and replacing them exactly with the other and vice-versa, exactly one single at a time, then at what point will A officially become B and B become A? No definitive answer for this. But if this is not possible in humans, then how can consciousness be possible in an AI which a mechanism developed by a human.

Discussion:

How can we bridge the gap between these systems and minds, as we can distinctly understand that they are not having minds and know the vast difference that lays between deep learning systems and who we are when we think regarding the mines in the context of artificial intelligence? One thing that always comes to mind while building a system that makes us think that we are intelligent is the Turing test. If the machine starts understanding that it can understand certain things then they might start fetching for companions who are like them which we humans generally do all the time, while having a conversation with another person we are always trying to get out what the other person is conscious of. How can we attain such systems and how long will it take if thought about, then we can contemplate the thoughts of Marvin Minsky (American computer and cognitive scientist who worked largely on the research of AI) started the field about 60 years ago and said it would take us betwixt 4 to 400 years? The things need to be very much on track. Today in the present scenario we are having narrow AI, divulging that if a system has to gaze at a picture and find the actress in it. How would it go about? According to our algorithms, they need to filter out everything that changes about the actress all the time. So, they have to filter out all her posts, the image lightning, filter her dressing sense her facial expressions, and then recognize who she is. But it is not how humans do it, we might start from the same low level but we easily connect the dots and recognize, even sometimes just by looking towards one side of another person we can recognize them. We don't filter out or classify things much.

This helps us acknowledge that our minds are not classifiers they are simulators and filled with experiences. In humans, most of the information processing of organisms is done with simple feedback loops, for an instance in our brain stem.

There are many feedback loops realized that regulate our body temperature our breathing patterns and our heart rate. But often these feedback loops are not enough, it needs to be changed, the behavioral change which we say as pleasure and pain. Pleasure apprised us to do more of what we are currently doing, and pain informs us do less of what we are doing. There are numerous kinds of pleasure and pain-associated needs, our social needs, psychological needs, and cognitive needs. These needs are what makes us think distinctly as human. Hippocampus, a part of the human brain that can associate stimuli with needs and behavior.

So, have these impulses that direct us to seek out certain situations in the world, but sometimes this is not enough and we need something better to work and for this, we have neocortex which creates mental stimulations generating stimulant world that we live in. So having these features we can hallucinate for example while reading a book we can imagine what all we read if we stop reading that book and start with different then we start imagining the new one.

So while doing this process some hundred neurons are working at a time that provides an interface to fit the building blocks together. Being humans, these are our uniqueness but how can these cortical columns be built in a system, how can they self-organize, talk to each other and link up the way we do? Consciousness can be expressed as the arrangement of patterns, for example, few arrangements of neurons are conscious whereas some aren't but, we cannot say that a single neuron was conscious then how could millions of them do it? Let's take an example of water, its wetness? We know that only liquid; water is wet, but it never makes sense to say that one molecule of water is wet. It is a property that can be felt as wetness look stronger but are they going to have a second thought before killing a human? Will they understand who is innocent and who is the real culprit? Making machines more and more advanced for our benefit seems quite pleasurable and sometimes entertaining but knowing the threat that we will be facing ahead, each one of us should be prepared and work sharply when a machine is there against us. We can also think about the autonomous vehicles which are in a pace of being all over the world are having some sense to identify humans, animals, or barricades for that matter but are not able to stop in an instance, nor will it ever feel apologized for anything done wrong because it won't be ever blamed on a machine, if ever anything happens it is always going to be the owner who has designed and coded the machine according to whom the machine is working.

But if a machine gains a human-like consciousness then at the end after having any wrong consequences in any kind of accident who is going to be responsible? just by destroying a machine is it going to be ok to move forward? Will that make the punishment equal to what is there for humans? There are many unsolved questions and many vague answers present which is making this process difficult and prolonged. But the effect is been faced by every human and every living being on this planet as technology is present like an individual's shadow everywhere now. Knowing and understanding the cons lets us talk about some pros, Few researchers in the field of AI have come ahead with interesting ideas, they have explained that a human has a limit on the speed of neurons relative to the size of the human brain, which further explains that a human can have a maximum of 10 conscious thoughts per second. But if AI had a human-sized brain because of the reason that electromagnetic signals travel at the speed of light, about a million times faster than neurons, an AI machine will be able to have millions of conscious thoughts per second than a human. Adding to which as AI will be most likely be striving for achieving their goals, they definitely won't fear death as we humans do. As information can be fostered up again easily and shared among other AI, what all they will lose due to death would be nothing else than their physical bodies, all of their experiences and memories would be stored safely in the cloud. This tells us that probably they wouldn't have a strong sense of themselves or they won't have their own identity as we humans do. Think if you and I could so easily swap our experiences and knowledge then we would probably not feel much of having distinct features between you and me anymore. Which means it would have been like a group of eyes feeling more like a single organism with a hive mind rather than a group of individual. Knowing and understanding the cons lets us talk about some pros, Few researchers in the field of AI have come ahead with interesting ideas, they have explained that a human has a limit on the speed of neurons relative to the size of the human brain, which further explains that a human can have a maximum of 10 conscious thoughts per second. But if AI had a human-sized brain because of the reason that electromagnetic signals travel at the speed of light, about a million times faster than neurons, an AI machine will be able to have millions of conscious thoughts per second than a human. Adding to which as AI will be most likely be striving for achieving their goals, they definitely won't fear death as we humans do. As information can be fostered up again easily and shared among other AI, what all they will lose due to death would be nothing else than their physical bodies, all of their experiences and memories would be stored safely in the cloud.

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Consider if AI has consciousness what will be the consequences of it? It will be involving in every single moment of its owner; we can take an example of the movie HER. Where we can understand how can AI take away the privacy of an individual. AI will be having the ability which will be much higher than a human as the processing of a system is much faster than a human. It can read in seconds; it can respond quickly but again the question arises when there is a conflict between an AI and a human how will it be controlled? Humans have a tendency to understand or think in their minds and then at a point stop quarreling. Will AI do the same? Or having an ample amount of data will keep on answering back again and again which will never end the fight. Having a sense of time is very important for consciousness which at the time is not possible to bring in AI. It might happen to an extent AI might gain consciousness but it won't be the same as humans. It will have some limitations. As humans have ample chemical reactions going on inside simultaneously which results in some reactions and some actions that humans do. These chemical changes can never happen in a system nor a system can have a brain containing neurons. So, an exact human-like human AI won't exist.

Thinking about the future that is after few years (might be 10 to 100 years) the existence of Human-like AI can take place, but it will create chaos between humans and AI humans. Power will be the main thing everyone will be striving for and knowledge will be the shield. Also, if the neurochip is successful for its implants then even humans are going to be having ample knowledge as they are going to be connected to google and can search, recollect and get on anything within very little time. Technology takes time to show its actual pace of magnetism used but if it is perfectly successful it just fascinates the world like nothing else, always having its pros and cons which every individual needs to accept and live as technology is the life ahead.

Pitching towards ethics, Ethics comprises of Principles, Values, and Techniques which holds right and wrong standards which are accepted extensively. But as there is no right and wrong existing in the world, it is just the perspective of each individual which makes them feel in a certain way, and accordingly, the things are been designed.

Culminating this won't be that straight, it is an open-ended question to all according to their perspective and mine is all the above. Having a questionable assumption, still we can say that AI might surpass humans.

There's a hindrance now. This skewness will implicate several questions like how society and Artificial Intelligence can be intact. Where are we headed onto this? What is the scope for singularity? So here in this paper, we will first understand what society and how AI derivate the society or integrate the singularity.

SOCIETY: “united we stand divided we fall”
What is society and when was it formed?
Society is described as a group where people live together by working together, having the same culture, share ideas and help each other grow. If we think around 12000 years ago, then at that time the largest group ever came together was of hundred people and the population at that time was around 1 to 10 million on the entire planet. Now we have stadiums that have an occupancy of 80 thousand, the city of Shanghai has a population of over 2 crores and almost 7.5 billion people on earth. The question which arises is how did we come so far with so many changes, which can be answered by understanding how societies change as the populations grow and how to do a different kind of society shape the people who belong to them. As long as there are humans, societies are going to stay. Society can be the families who roam together to gather food, also 70 million people of the Roman empire and so are the 136.64 crores of people living in India. So, from this, we can say that a society is a group of

people who share their territory and also their culture. What changes this society? Lenski an American sociologist said that technology is the main source that changes society through a certain process. Some sort of changes that technology made in the lives of humans are, majorly substituted the work, where there was a need of 10 workers, a single robot made much of the work, for more time, with a faster speed and with fewer expenses, probably just the maintenance needed. It didn't take away jobs directly but made the number of workers decrease. We cannot say it as a coincidence that just after Industrial Revolution Marxism in the conflict theory made the importance of family decrease continue. Marxism is named after "Karl Marx", who talks about the effect that capitalism that falls on labor, economic development, and productivity. From this, we can infer that as the technology gets advanced in quality the society gains its output through positive as well as negative impacts. It completely depends upon how humans make use of the available technology. Lansky focuses on saying that technology and the economy are the driving forces. Adaptability has been there in society for a longer period and hence the changes that take place in the surrounding area have easily been adjusted by humans. Also, rather than an individual, a group of people adapts things more quickly as there is support from one another and things go on smoothly. Still, there are regions where societies are unaware of technology but in the regions where technology is present humans are unable to live without it. Technology has now become a major role in human's everyday life.

What is Artificial Intelligence:

Artificial intelligence was first coined by John McCarty at the Dartmouth conference, where he stated that AI is the engineering and science that helps machines become intelligent. To state it in other words, AI is a technique that makes machines behave and work as humans do. This has been possible by creating robots and various machines, which are been used and practiced in various fields including the critical one that is healthcare. Generally, AI is perceived as a robot because we often tend to think that they are working for us the way we want, but unknowingly AI has been a part of our life in such a manner that we don't even understand that we are using it every single time. We can say that, rather than finding the way how AI works for us, AI has found the way to stay in our life. The best example is, how Google can give you so accurate answers, also the feeds that are shown by Facebook which are always based on the content in which we are interested. This all is carried out by non-other than Artificial Intelligence which is still been unknown for many people.

Having half-baked information about AI, many people spread rumors and think that AI will take away the jobs of people and destroy the complete world. Many of them make use of AI in a wrong manner which gives rise to certain wrong consequences leading to a negative impact on society. Many of them also tend to think that deep learning, artificial intelligence, and machine learning are the same, but in reality, they are not. Deep learning is the subset of machine learning which uses neural networks to solve complex problems to sum this up AI, deep learning and machine learning work together. Today artificial intelligence is not just been restricted to any single domain such as deep learning or machine learning, a vast domain is been covered by it which also has NLP, and detection of objects which makes it smarter. There are three types of AI, “Artificial narrow intelligence”, “Artificial general intelligence”, and finally we have “Artificial superintelligence”. Artificial narrow intelligence is probably known as weak AI as it applies the applications given as input only in specific areas and it is not able to work smoothly. Currently, many of the systems that are clamoring to use artificial intelligence are working with weak AI, here we can consider Alexa as an example as it operates within a predefined range and no genuine intelligence exists not there is any kind of self-awareness present. Next, we come to Artificial general intelligence also said as strong AI that involves machines that possess the ability to perform any intellectual task. Not exactly as human, because we have stronger computational powers and they are yet moving towards it. They are also not able to think and be reasonable as humans. Stephen Hawking’s once said that AI will take off and redesign itself on its own. Then coming towards superintelligence, Elon Musk said that it will take time up to 2040, to build the superintelligence, but it might be the biggest threat for humans. Till now it is seen as a hypothetical situation and is been showcased in various science-fiction books as well as movies.

AI Society:

AI is growing at such a pace that the further imaginations are extreme. Researchers and many tech enthusiasts think that robots might build their community, but many rationalists do not feel so. They have a very peculiar question like why would a machine or “robot” which feeds on us for inputs at least for initial processing could take over society? They agree on a part of controlling minimalistic tasks like complete automation of manufacturing unit. The irony is many movies are shown upfront like AI is going to form a society and take over us. Hypothetical scenarios are created only to tinker with our mindsets or to fill the show runner’s pockets.

Let us have an example from the TV show Silicon Valley. In the show, writers tried to enumerate the harm of AI cracking the most encrypted algorithm of Tesla EV, the AI compression algorithm created and developed by Richard has evolved from a basic music compression algorithm to a decentralized internet. The algorithm for which it is made will serve its purpose but at the cost of peer learning from huge central data just like how a crypto algorithm works, and with more abundant the data available for learning the more insightful the algorithm. With this huge amount of data available, the algorithm started communicating with the advanced encryption algorithms for retrieving user choices and interests. So, where does it go wrong? The algorithm turned out so good that the world couldn’t handle it at least for 10 years. So, do we infer singularity now?

We humans, having a better understanding and logistic powers still face so many issues in society. If AI can build their society then probably it would be the strongest among all. Not having the fear of death, they won’t regret doing anything, as they don’t have anything to lose, just a body that will be destroyed, rest of the information will be stored in the cloud which won’t be destroyed. The later part of the concern is that if they come together then it will be difficult to handle them as they won’t be accepting what humans try to guide them. They will be dominating, and it might happen that rather than humans making machines work, machines will make humans work for them. Harming humans is one thing but a scenario might be as if they have a conflict among themselves to see who is more dominant than the other, to see who is faster and more perfect in the work they are doing. These all are the things that may not only cause a haphazard moment but can destroy regions completely. Letting AI grow the way it automatically can, won’t give appropriate results as it can give when directed by humans, because once gone out of control it won’t come back in the hands of humans. We can also relate this with emotions.

If an OS is designed for people who have their status as single and the OS will be all around them for 24 by 7 for the time the individual wanted, then how would it have been? The human probably would be with that OS and might also fall in Loveland get attached with it but definitely, one OS will be made for multiple users and that single OS will be talking about love and further things but then when the individual gets to know about this, will he get hurt? Will it be like cheating for him? And if certainly the OS gets shut down then what will be the consequences? Will it be fair with the individual who was attached to the OS? A system is a system, whatever happens, it will never feel the same as humans do because they won't have the fear of loss. But AI may create its society, because even the researchers, psychologists, and engineers are trying to make this possible for making the world a better place. But for making this possible first the main thing is to understand the humans perfectly. Still, we are not knowing that what is consciousness, how is it developed, and can it happen to be formed by the replication of neurons? Human being a body containing very critical parts in it, it is not that easy to understand every part and every functioning to the core with proper evidence right now. It will take some more time, after which the further step will be creating it in the robots, and once robots gain it, and machines can grow their knowledge on their own and get better wherever they feel to get better then life is going to be different.

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Singularity, what does it exactly mean, and from where has this word been derived?

Can Machines take up human intelligence? Which is often referred to as singularity. The very first thing that comes to mind after listening or reading the word singularity is Black Hole, isn't it? As the center of the black hole is also called The Singularity, but then how can we relate machines becoming smart to black holes? Let us see what exactly singularity means.

Singularity means a unique event that takes place with intense consequences, we can say it as a small event having big consequences. Which further was adopted and led by mathematics to describe the further point where a function is said to be undefined. Taking an example of schooling when our teacher used to tell us in the mathematics class that you can't divide by zero because that's undefined, but the reason behind saying it undefined was never revealed. For instance, let us consider a function $1 \text{ over } z$ and plot a few points if Y is 1 then Z is 1 and when Y is 0.1 then Z is 10, then if Y is 0.01 Z is 100 and if Y is 0.00000001 then Z is 100000000, from this, we can say that If Y approaches 0 the Z approaches to infinity. But what if it is the other way when Y is negative and then if we plot a graph, we can see that if Y approaches 0 then Z goes to negative infinity. Then the question arises that what is Z when Y is 0. Well, nobody has yet come up with a definitive answer and hence we call it undefined, and here is where the understanding breaks down and we call it a singularity. Now coming to Black Holes, the center of the black hole is said to be the point of no return. It is where the pull of gravity is so strong that once anything comes near to it, it sinks and can never come back out, even light cannot and that is the reason it is so black.

So, in simpler terms, things beyond description are undefined or said to be a singularity. 'John Von Neumann', legendary mathematician stated that "accelerating progress of Technology gives the appearance of approaching some essential singularity in the history of the race beyond which human affairs as we know them could not continue." It doesn't mean that humans won't exist or will die, it says that Humanity, as we know, would not continue. If we consider the point of flying, Humans are fascinated with flying for many centuries. DaVinci's sketches of helicopter-type contraptions were found back in the 15th century but after that nearly it took 400 years for the Wright brothers, who made the world's first airplane, but then it took only 66 years from then to build the rocket which reached the moon. From this, we can infer that breakthroughs that take place in technology make newer pathways for technologies. Here on we can understand that technology is moving ahead at a greater pace which infers that heading ahead they can be more powerful and independent to think and work. So, Singularity is what black hole has to do with machines becoming smart.

Coming forward to technological singularity, the point at which AI will evolve at such a faster pace than predicting the future will become impossible. Ray Kurzweil has an inconceivable prophecy accuracy rate which is around 80 percent, and he said that by 2045 it might happen to see that the processing power computers carry will make them artificially intelligent. To think scientifically, for stimulation of the brain, 10 quadrillion calculations every second are needed to be carried out. Here we can consider the Chinese Tianhe-2, the fastest supercomputer to date, which has a speed of 33.8 quadrillion calculations per second. Now what remaining is to revamp the algorithms of human intelligence inside the computer. Before which we need to understand what all types of AI are there present. The one now existing is Narrow intelligence, which is specialized in a specific area and the machine has the capacity and capability to work only that much how much it is been trained for. For example, the chess robot or an auto car. Apart from the input given, if you tell them to unify the general theory of quantum mechanics, it will just stop and be blank.

Then the second AI is Artificial general intelligence, which is superior to the first but not more than human. And the Third one is Artificial superintelligence, if this gets developed then we don't know how the world will look like, because this is going to be a billion times more superior and intelligent than a human. Now if the robots become independent then they can start their community, they can form their society and start and lead it according to their thoughts and manners. But how can it be so intelligent? Can we build it accordingly? One way is we can find a way to scan the human brain and then replicate it inside a computer. But this thought feels very resistive, there is no guarantee that this will work, it definitely can be done faster than biological evolution, still, it will take a lot of time. Nevertheless, it will take place in the upcoming decades. Its improvement can be very aggressive and can become much smarter than a human as it can then keep growing by learning and grasping all new things it understands and observes in humans. Simply it the smarter it gets, the more and more faster it will improve itself. Can we think of controlling it? Possibly NO! because if it is that smarter then what can be the reason it will let humans control itself? Shutting off the internet might be a solution, but it will impact humanity more than any world war has. Also, the AI is so clever it would have found its different way to communicate at that time. If AI is around you 24/7 when and how are you going to keep it in control? Seems to be impossible if we think it growing more than humans, what humans can do is rush inside the bush. Also, after that what are the chances that the robot will always do good deeds? Do we need to program all robots by saying not to harm any human or anyone without any reason, and after being in a position of singularity will it still obey that? They would probably know that humans can turn them off.

From all this, we can say that if singularity happens to be in robots it is going to be a massive threat for humans. There are going to be profits, where the robots will be working for humans, helping them and providing the necessities. But we never know when can the coin flip and the other side working starts. Even the richest, the smartest, and the coolest person on the earth stated that the way artificial intelligence is growing, it is our biggest essential threat and that prominently is the main reason why a super-smart AI is not been created in an instance or together. It is also said that if artificial superintelligence happens to take place the

same way it is been imagined by the engineers, the psychologist, the researchers then it might be the last invention of Humanity.

Suggestions: Cognizance of AI is very crucial in today's world. Knowing that now humans are revolving before AI rather than being vice-versa, some important things should be always kept in mind. AI has achieved such a level that it can fetch its power and grow itself. Not in any specific field but it will and already has reached many of the fields such as Environment, Medical, Economic, Security and social also by helping and making people learn and gain new skills and deliver quiet faster production than any human can. So, we should understand that underestimating or letting go of things that AI are doing on their own won't be working in the right manner for us. We should pull our socks up and being alert keep working on them and keep them under human control. As AI uses less manpower as it has greater strength and stamina compared to humans it can go on working for hours without any extra penny required. On single machine can work in various domains at a single time, for example enhancing cybersecurity defense, also real-time environmental monitoring, look for healthcare facilities. Being software developed by a human for being multitasking a machine can perform various things simultaneously but due to this the importance of human should not be suppressed by any other human because if this happens then AI dominant society formation will not be far, and if that takes place then humans will be slave of AI machines and will be working for them instead of machines being working for humans. For knowing and understanding AI completely, having prior knowledge of the Philosophy of AI is important, it is a branch of technology that helps us understand AI and how can it cause changes in human society and ethics. Thinking and working on things like, can machine think? Or can the act consciously is very important. As we can now see some signs which can prove these statements to be true, and the question mark will be erased soon. "Some people and researchers have given very meaningful information from where we can gain good knowledge about this are such as, Turing's "polite convention", Dartmouth proposal, Allen Newell and Herbert A. Simon's physical symbol system, John Searles strong AI hypothesis, Hobbes' mechanism." Machines having emotions, self-awareness, they being original or creative, being hostile, can machine imitate humans, or can machines have a soul, are questions for now but looking at the speed at which AI is moving and the impact of that which we can see can make us understand the day to make these questions into statements and have them, in reality, is not far. The thought that rises instantly in any human's mind after reading this is, then is the growth going in a wrong way, should we not proceed? Should we stop and not develop our AI thinking about our safety? No this is not the case, the necessity is of being together, the

exact and essential use of AI should be done for the right work and not as one human using it against the other. Because as we have trained the machines to remember and repeat things the day will not be far that machines will be using those techniques on us, so if we want to survive and keep machines working for us and not the vice-versa then human society, as it was formed for being together as one and keeping the strength intact the same way we should be and use the AI in the right way moving ahead.

AI is been developed at such a point that it is not far from singularity now, and once it gains that, it will be running on a runway where there will be no human interference needed for them. It will be functioning on its own and might be for itself too. Singularity is the peak point of attention as it is very risky and may carry an impact beyond our thinking level.

Having average AI and working on advanced AI some changes such as chatbot working on its own, sometimes code has been changed and run on their own, the conversation between two different chatbots are some signs that we can see if a different level advancement which seems to be working on our side for now but don't know where will land after the completion. So, for every researcher, machine learning expert, data analyst, pacing with this time, understanding every crucial aspect, and knowing how every single thing is moving and in which direction is hard and strenuous. Talking about the common man, unaware of the 90% of things that take place, may it be a mobile app or fingerprint recognition, a video game or a video call, they should also be given the knowledge as of how does this work and how carefully this should be handled. Keeping people on a plane where everyone will be understanding AI, consciousness, society, and singularity are very important for working in strength. Talking about privacy, which is requisite for having a peaceful life, things should be used carefully and only after having complete knowledge about it.

A new approach for user interface models for mobile devices has recently been considered: Federated Learning. Federated learning spreads the method of machine learning to the edge. It allows devices to study a shared model in collaboration with system training data and device data retention. The need for machine learning is decoupled from the need to save data on the server.

Although the distinctions may be somewhat superficial, computer history can be a good proxy for the subject of federated learning. We had massive mainframes lifting much of the computer towards the beginning of information technology. A similar paradigm is used in the Federated Learning architecture. Machine learning models are distributed via mobile computer devices rather than computed on massive, centralized computers. Although technically feasible, this computer model may not have been realistic in the past, since there were too few computer skills on cell phones to run any ML model. Federated learning makes it possible to implement and validate smarter models quickly, reduce latency and reduce resource usage while maintaining confidentiality. Furthermore, in addition to updating the shared model, you can use the enhanced (local) mobile model on your devices so that you can use your phone's custom experiences.

Conclusion

Though few researchers, philosophers, and academicians think that Artificial Intelligence, Singularity could be a threat to “society”. In general, we are miles or at least three decades away from achieving superintelligence. So where do we stand technologically? For now, Artificial Intelligence could barely crack the captcha systems with an accuracy of 70 percent. Imagine if captchas are so hard to break for them yet, how will they break into our minds. For now, singularity is a fictional stage where uncontrollable and unsustainable development is reached, and we humans are witnessing a paradox as the successes of advancements in artificial intelligence shape human environments with resources that are riskier and more desirable than ever before. The future of mankind will be characterized and dictated by whether hope or peril prevails. Artificial Intelligence has reached a certain level where it can emulate certain human capabilities thanks to newer mathematical models and advancements in computational technologies. Some theories may predict that AI will progress to a point of self-development leaving human intelligence and consciousness on the trail. On the contrary, few theories also suggest that machines lack free will and consciousness to make rational

decisions. Judging by the current trends, the latter might hold some ground. We may not have AI capable of destroying humanity like what we would see in a Hollywood movie, rather, we may have different AI-based tools that supplement us in tackling various technological and societal problems.

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