

The most important tool humanity has conceived

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Abstract

Artificial Intelligence is the development of computer systems to be able to perform task normally requiring human intelligence. Examples are visual perception, speech recognition, decision-making and translation between languages e.t.c. Artificial intelligence is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans. Artificial intelligence is the technology that drives most modern technology from self driving cars to even our snap chart filter. Artificial intelligence as the best tool to solve global poverty. Artificial intelligence can be used to bridge the gap between the have and the have not between the develop and the underdeveloped world. The purpose of this study is to present a systematic view why Humans need to embrace fully Artificial Intelligence, the importance and various applications of Artificial Intelligence, How Artificial Intelligence is better than all inventions before it, the role of Artificial Intelligence in fighting the COVID 19 pandemic, the need for Ethical Artificial Intelligence. This study identifies where humans have gotten to in terms of narrow or strong Artificial Intelligence. Having carried out inquiries on the fears of humans accepting the full possibilities of Artificial Intelligence, this study answers two important questions firstly, will Artificial Intelligence bring about the end of the human race? Secondly, the loss of human resources in the labour market as a result of more smarter, efficient Artificial Intelligence. It is hoped this study will inform humans on why Artificial Intelligence is the single most important tool humanity has conceived.

Keywords: Artificial Intelligence Hub • Effurun • Delta State • AI.

Introduction

Artificial Intelligence is the development of computer systems to be able to perform task normally requiring human intelligence. Examples are visual perception, speech recognition, decision-making and translation between languages e.t.c. According to techopedia.com Artificial intelligence is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans. Artificial intelligence is the technology that drives most modern technology from self driving cars to even our snap chart filter. According to Andrew Ng, an authority in the field of artificial intelligence, he said just as electricity transformed almost everything 100 years ago, we have seen so far that AI will transform our industry in the next several years. AI already powers our home i.e. smart homes, our phone cameras, driverless cars like in Tesla cars. Fictional movies are becoming a reality with artificial intelligence. We now see company trying to create neural machine interface to bridge the gap between humans and AI because of the rate of advancement of AI. It is estimated that trade involving AI will hit \$13 trillion by the year 2030. An easy way to build the skills necessary for the machine-learning and AI field is continuing education, in addition to formal strong data science programs, there are also many viable, free options.

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Received September 30, 2020; **Accepted** October 14, 2020; **Published** October 28, 2020

Importance of Artificial Intelligence

Artificial intelligence as the best tool to solve global poverty:

Artificial intelligence can be used to bridge the gap between the have and the have not between the develop and the underdeveloped world. Artificial intelligence can bring same kind of quality education obtainable in Harvard to FUPRE.

Applications of Artificial Intelligence

- Education: - AI robot – MATHia can help teach students mathematics in such a way that it knows the individual difficulties each student is facing.
- Agriculture:- This present method of agriculture (farming and rearing of animals) is not sufficient to feed the world growing population, (over 7 Billion) that is where AI comes to the rescue, with 3-D printing of food use of plant base milk and meat.
- Road constructions and Bridges: – AI can now be used in road construction and bridges to produce faster result like the INSTANT BRIDGE that builds usable bridges in 8 hours. AI also replaces humans in risk jobs that often lead to loss of life or job loss.

Artificial intelligence can be integrated to health care to help developing region of Africa with little or no skilled doctor to diagnose diseases like breast cancer pneumonia malaria and eye diseases.

The AI was better in the detection of T1 cancers, which is categorized as early-stage invasive cancer. AI detected 91% of T1 cancers and 87% of node-negative cancers, whereas the radiologist reader group detected 74% for both. The accuracy increased from 9.5% to 85% when radiologists were aided by AI.

How AI is helping in the fight against Covid- 19

1. Disease surveillance- Canada based Blue dot has leverage machine learning and natural language processing to track, recognized and report the spread of the virus quicker than WHO.
2. Virtual Health Assistance (Chat bots) –Canada based Stallion AI has leveraged its natural language processing capabilities to build a multilingual virtual health agent that can answer questions related to Covid-19, provide reliable information and clear guidelines, recommended protection measures, check and monitor symptoms and advise individuals whether they need hospital screening or self isolation at their homes.
3. Diagnostic AI- Immediate diagnosis means that response measures such as quarantine can be employ quickly.
4. Facial recognition and Fever Detector AI-Thermal camera has been used for sometimes now for detecting people with fever in China.
5. Intelligence Drones and Robots –The public deployment of drones and robots has been accelerated due to the strict social distancing measures required to contain the virus spread.
6. Curative Research AI –Part of what has troubled the scientific community is the absence of a definitive cure for the virus. AI can potentially be a game changer. An easy way to build the skills necessary for the machine-learning and AI field is continuing education. In addition to formal strong data science programs, there are also many viable, free options.

A.I more important than fire and electricity

Google C.E.O Sundar Pichai says Artificial Intelligence is going to have a bigger impact on the world than some of the most ubiquitous innovations in history. Boldly stating that “A.I is one of the most important things humanity is working on. It is more profound than I dunno, electricity or fire”. I quite agree with him because we all know that fire and electricity can kill humans. Artificial intelligence is made for saving lives and making the world a better place. As my hero (Elon Musk) warned a human dictator will eventually die but an AI dictator will never die. He said America shouldn't be scared of KIM JONG-UN but an untamed AI.

Preparing for the future:

With the recent convergence of a transformative set of technologies, economies are entering a period in which AI has the potential overcome physical limitations and open up new sources of value and growth. To avoid missing out on this opportunity, policy makers and business leaders must prepare for, and work toward, a future with AI. We must do so not with the idea that AI is simply another productivity enhancer. Rather, we must see AI as the tool that can transform our thinking about how growth is created. Whoever wins the war on AI will become the global leader. This has often led to scientist in different countries coming up with new inventions like the CRISPR BABY and some dangerous invention that are not too palatable. There is need for a regulatory body like the WHO under the UN that would regulate the activities of these scientists. AI technologies are categorized by their capacity to mimic human characteristics, the technology they use

to do this, their real-world applications, and the theory of mind.

Examples of narrow AI:

- Rankbrain by Google / Google Search
- Siri by Apple, Alexa by Amazon, Cortana by Microsoft and other virtual assistants
- IBM's Watson
- Image / facial recognition software
- Disease mapping and prediction tools
- Manufacturing and drone robots
- Email spam filters / social media monitoring tools for dangerous content
- Entertainment or marketing content recommendations based on watch/listen/purchase behaviour
- Self-driving cars

Artificial General Intelligence (AGI) / Strong AI / Deep AI

Artificial general intelligence (AGI), also referred to as strong AI or deep AI, is the concept of a machine with general intelligence that mimics human intelligence and/or behaviours, with the ability to learn and apply its intelligence to solve any problem. AGI can think, understand, and act in a way that is indistinguishable from that of a human in any given situation.

AI researchers and scientists have not yet achieved strong AI. To succeed, they would need to find a way to make machines conscious, programming a full set of cognitive abilities. Machines would have to take experiential learning to the next level, not just improving efficiency on singular tasks, but gaining the ability to apply experiential knowledge to a wider range of different problems. Strong AI uses a theory of mind AI framework, which refers to the ability to discern needs, emotions, beliefs and thought processes of other intelligent entities. Theory of mind level AI is not about replication or simulation; it's about training machines to truly understand humans. Fujitsu-built K, one of the fastest supercomputers, is one of the most notable attempts at achieving strong AI, but considering it took 40 minutes to simulate a single second of neural activity.

There are 195 countries in the world.

Top 10 countries leading in Artificial Intelligence:

China, U.S.A, U.K, Canada, Russia, Germany, Norway, Sweden, France and India

Least countries in the world as regards Artificial Intelligence:

Most African countries fall in the range of countries that haven't experienced the benefits of Artificial intelligence.

Nauru, Micronesia, South sudan, Central African Republic,, Comoros, Guinea Bissau, South Sudan, Eritrea and Somalia according to Research conducted by Oxfordinsight.

The big question: will artificial intelligence take over the world?

Just as we have seen in Science fiction movies where the end of the human race is brought about by Smart Intelligent Robots. A.I take over is a scenerio where A.I becomes the dominating form of life on earth, taking absolute control of all the spheres on Earth. At this phase , A.I would not be under the control of Humans. Studies have proven that A.I is just following an algorithm that humans have developed and written successfully into its program. The Only possible way for A.I to take over the world is if emotions and feelings are part of its functions. Basically A.I would still need humans to write codes that would seem like emotions into their makeup. Not until humans see A.I (Robots) fall in love, hate its job, develop hate for a person, feels tired , weak and exhausted, feels the need to share feelings with someone, feel happy, feel sad, not until then can we talk about an invasion from A.I. at this point A.I would be able to think, reason, judge, make decisions, make conclusions, be well organized and coordinated fully on its own. Until the programmers writes code of emotions into the A.I hardware, humans are totally safe and assured that there isn't going to be an A.I take over. The term G.I.G.O comes into mind, it is whatever information we give A.I that it works with.

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