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AI – The Future of Humanity and the Biggest Dilemma

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Abstract

Nowadays, there is a wide discussion about the developments of Artificial Intelligence (AI) and the impact these developments are going to have on humanity. There are interest groups that are pro further developments, but there are also many other groups that believe that the developments of this technology will cause extraordinary and irreparable damage to humanity. In this article we will briefly discuss the latest developments of this technology in the world. We will mention what is GLLMM (Generative Large Language Multi-Modal Model), what this language is bringing new and what inventions has brought it to the AI developments. It will also briefly describe what the stages of technological development have been, the match with humanity and the impact on the latter years. In conclusion, we will briefly consider whether the further technological development of AI is a threat to humanity and whether we should feel threatened by this technology, and respective further developments conducted in this domain.

Keywords

AI (artificial intelligence); GLLMM (generative large language multi-modal model)

Introduction

Let us imagine for a moment that we are back in the distant year of 1944. One beautiful morning we wake up to a phone call from Robert Oppenheimer (director of the Manhattan Project) telling us that the world is about to change forever in a radical way. Currently, 50% of AI researchers believe there is more than a 10% chance that humans will disappear due to their inability to control AI. The information was extracted from a questionnaire that was administered to 738 researchers in the field of ML between June and August 2022 (MIRI, 2022). They were asked the question: What is the probability that you predict the inability of humans to control the future progress of artificial intelligence systems, which can cause superhumanity or similarly disable the ability of humans to control them in a permanent and very serious way? Let's say that 50% of aeronautical engineers believe that there is a 10% chance of people dying during an airplane flight. Will anyone fly in an airplane under such conditions? The logical answer is no.

First contact of AI with Humanity

According to the three rules of technology (Zhan, 2022), every time a new technology is invented, we discover a new level of responsibility. If this technology generates power, then this technology will start a race. If it cannot be coordinated, the race will end in tragedy. Everyone has probably seen the documentary on Netflix called "The Social Dilemma". In this documentary, concrete real facts and reference cases are presented on how social media platforms, designed to connect and unite us with other people, control us. I believe that everyone has experienced the fact that whenever you search for something in such social networks, actions related to that search are automatically published in every navigation window. In this respect, social media is humanity's first contact with artificial intelligence.

In this first contact, humanity has lost. In the aspect that almost all users of these networks are dependent on them, but not only that they receive a very large amount of information (information overload). Users are also condemned to navigate all the time (doom scrolling). Influencer culture has also become a widespread trend in these networks. The spread of political conspiracy theories such as QAnon. The shortening of attention spans, especially in children, and the direct impact on their mental health, which is an increasing concern. A significant increase in the sexualization of children. Widespread polarization of society. Fake news and viruses spread through these platforms. Ultimately, democracy has been destroyed by these networks. Of course, the question is, why is humanity being lost? Because through these platforms, in addition to the above-mentioned factors, you are all given the opportunity to have a voice, we have the opportunity to connect with all friends, the virtual gathering with like-minded communities, as well as the opportunity that is given to small and medium companies to reach the customers and manage to benefit from them by selling you the products in a direct way.

Behind all these platforms, taking into account all the factors that negatively affect people's lives, is the so-called race of these

companies for attention, or in other words, the race to reach the deepest brain cell. In this way, social media have managed to rewrite the rules of every aspect of our society. They have become important and inseparable factors in politics, where every politician curates and updates all the social networks. With these platforms, they have managed to influence elections in countries such as America, with the scandal that broke out after Cambridge Analytica (Confessore, 2018), or popular movements for regime change, as was the case with the Arab Spring. The extraordinary impact of these platforms on children's identity has become a major concern these days. National security is an overriding factor that is influencing more and more recent armed conflicts, such as Israel - Hamas or Ukraine - Russia.

Second Contact

The second confrontation between humans and AI is the introduction of Chat GPT 4 (Sundar & Mok 2023). Through this platform, AI is supposed to make us more effective. AI will make us faster writers and enable us to write application code in record time. It will also make it possible to solve scientific challenges that were previously impossible. Through AI, the solution to climate change will be achieved, and as a result, AI will generate a lot of income.

However, there are some major concerns behind the introduction of Chat GPT-4. Most people see AI as a scientific development that will disrupt the labour market and massively reduce the number of jobs people do, replacing them with machines. It is claimed that AI will lead to a loss of transparency and that things will be done without our knowledge. A significant group of people also believe that AI will work in an unethical and unfair way. In 2023, the year Chat GPT-4 was introduced, there was a large increase in all things fake, the destruction of the real as well as the destruction of reality. The use of legal spaces made this development possible in all areas, like:

- An extraordinary increase in threats or blackmail.
- Automatic creation of computer weapons and exploration programs.
- Automatic lobbying on the political, commercial and social level.
- Automation of biology and fields related to production.
- Exponential growth of scams.
- Testing everything from start to finish.
- The establishment of synthetic relationships as well as the so-called Alpha Persuade (de Graaf 2023), which causes people to be deceived in the intimate aspect by a computer.

AI Engine

In 2017, a new AI engine was invented. Until this year, AI was used in various fields such as robotics, speech recognition, image generation, music generation and speech synthesis. In that year, the so-called language was created. This language was called GLLMM or Generative Large Language Multi-Modal Model. Otherwise called "Golem-class" AI (a term coined in March 2023 by Silicon Valley engineers, Tristan Harris and Aza Raskin). With this new language, all of the aforementioned pro

cessing activities will take place in the same environment, including DNA information, codes, videos, images, voice, music, robotics, stock markets, biometrics, fMRI and texts from the Internet. On 5 March 2023, the well-known American newspaper The Washington Post (Verma, 2023) published an article describing how people had been deceived by phone calls they thought were from their relatives asking for help, but were in fact nothing more than an AI scam.

MGM Casino was also hacked (Page, 2023) by a single phone call. In these cases, we have a complete decoding and synthesis of reality. It is worth mentioning that the original human voice can be reproduced with only 3 seconds of audio, or hearing a person speak for only 3 seconds. A great debate has also been raised about the manipulation of video, where videos of faces can be used to blackmail people and directly affect the way of life and well-being of people. In light of all these technological developments, 2024 will be the last year in which the People's Powers will hold elections. During these developments, extraordinary abilities have been demonstrated in solving mathematical problems, translating from one language to another, identifying handwriting and answering questions in Persian. According to (Kosinski, 2023), the development of AI according to the Theory of the Human Mind is shown in Figure 1. Theory of Mind developed by AI.

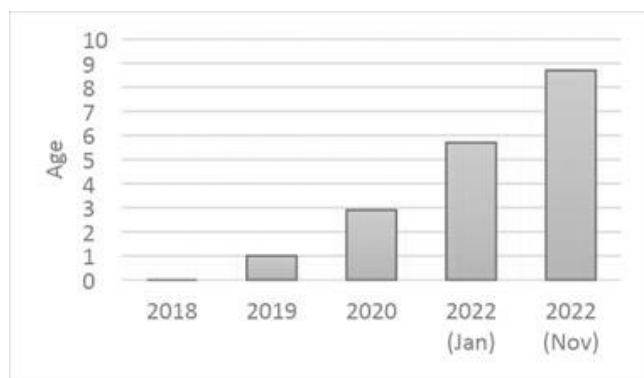


Figure 1: Theory of Mind Developed by AI.

It is clear from this graph that if this measure was not present in 2018 and was negligible in 2019, it took a significant leap in 2020, when the developments here are compared with the brain of a 3-year-old child. In January 2022, trying to compare these developments with the brain of a 7-year-old child, and for a period of 10 months, in November 2022, trying to compare these developments with the brain of an approximately 9-year-old child. The question that naturally arises in this case is: where will it go in the coming two years?

AI platforms developed by big tech vendors

Artificial intelligence is the future of big tech — and is already an integral part of the consumer and enterprise products at all of them. All big tech vendors are in race to develop their AI platforms or perform partnerships and try to position themselves in an leadership position and gain significant market share. It is worth mentioning that most of such companies have not had a big experience in launching such platforms, we can mention here

the fact that Meta’s powerful AI language, called LLaMA, has been leaked (Vincent, 2023) online. On the other side Microsoft has been criticized for embedding ‘crass’ AI polls beside news article (Gross, 2023). Google, Amazon and Apple are dedicating resources to breakthrough in AI. Google has launched its own AI chatbot called Bard. Today, Amazon uses artificial intelligence for everything from Alexa, its industry-leading voice-activated technology. Microsoft has gained a lot from its partnership with OpenAI. Oracle has partnered with Nvidia to boost enterprise AI adaption. IBM has been a leader in AI software platforms with 13.7% market share in 2020 and 46% in 2022. It has an extensive AI portfolio and through its Watson products, sells AI and ML services that helps its customers make better decisions and benefit more financial values.

Identified problems after AI increased usage

With the increase usage of AI platforms was identified an significance increase in power supplies in Data Center. Microsoft has announced a really high number of water consumption (Mann, 2023), used for cooling of servers due to high power consumption after introduction of AI. There is a prediction that high usage of AI will lead in quite significance high usage of power (Leffer, 2023). Powering AI systems needs a lot of energy and this can be a significant problem in the future. Despite this, its enormous amount of energy consumption is already creating an undeniably large carbon footprint. AI create a major carbon footprint and environmental concern due to the reliance on non-renewable resources. This leads to higher greenhouse gas emissions and an exacerbation of global warming.

Another big problem faced with usage of AI is its economic impact. Creation, powering and maintenance of complex AI systems is going to be a very big challenge for public and private sector. Only corporates and governments will be capable to handle such systems and run then accordingly. Considering three aspects of an economic impact, implementation of AI systems is going to be complex and difficult to be understood. It will be expensive to be implanted and not affordable especially for small and medium businesses. On the other side the low number of AI experts is making introducing of such systems not possible economically and operationally.

AI Feeding itself

Today, one of the characteristics of AI is its use to feed itself with more data. In this context, the use of Chat GPT data that it receives from different sources and internet platforms is able to generate more data, which can later be used to generate other data in a cyclical manner. as shown in Figure 2.



Figure 2: The way AI feeds itself.

In this way AI realizes a stronger AI. Paralleling it with the theory of evolution, we can describe it as follows:

Give a man a fish and you feed him for a day;

Teach a man to fish and you feed him for a lifetime;

Teach an AI to fish, and it will teach itself biology, chemistry, oceanography, evolutionary theory

.... and fish all the fish to extinction.

Where is AI going to go?

Let's return to the question posed at the end of section 4: Where will AI go in the coming years? Even the best AI experts, who are more familiar with exponential functions, are unable to give a prediction of progress. We asked these experts when AI would be able to solve a mathematical equation of a certain degree with more than 80% accuracy. Their answer, based on the prediction, was that AI would reach 52% in 4 years. In reality, AI has reached more than 50% in just 1 year. AI has also been able to solve the tests at the moment they are created. So there is a real-time testing solution, something that has increased significantly since 2020. According to Jack Clarke (xz), tracking the progress of AI is becoming increasingly difficult because the progress itself is accelerating at an extraordinary rate. This progress is unlocking things that are critical to the economy and national security - and if we don't take the paper out of circulation every day, we will miss important trends that our competitors will see and exploit. Golem AI armies aimed at our brains will try to strip us of any thought or anything else that is not protected by 19th century laws. Almost all over the world, human rights groups and governments concerned with the protection of their citizens are analysing the situation and creating new laws that will be able to protect the human aspect of humanity.

Is the situation really that critical?

Take a breath. However, Golem's development is too slow for the public to safely test it. At the end of February 2023 (Warren, 2023), Microsoft unveiled its new AI-powered browser for Windows 11. Also in February 2023, Meta launched LLaMA: A State-of-the-Art Foundation Language Model for AI Research. In April this year (Cimerman, 2023), Snapchat released its AI chatbot to everyone for free.

The OpenAI-powered chatbot has been added to chat groups, gained the ability to make recommendations for things like AR filters, and will be able to generate photos within the app. But this should reassure us that there are many careful and safe scientific researchers who allow us to be calm and unconcerned about AI developments. AI also has important lines of research that are not driven purely by economic interests.

Even the smartest AI people think that there is a way to try to develop AI in a way that is safe and harmless for humanity. This way is to selectively slow down the public development of GLLMM AIs. This is achieved by assuming that public use of GLLMM is unsafe until proven otherwise. In this view, the pressure should not be put on citizens, but on AI development companies. According to Yuval Harari (Harari, 2011), AI is to the virtual world and symbols what atomic bombs are to the physical world.

Conclusions

This paper has attempted to provide an up-to-date overview of developments in the field of Artificial Intelligence. In the respective sections, we have provided information on the confrontation of humans with AI and the implications of this confrontation. An overview of the main drivers of AI development today was also presented. It is worth noting that this development is becoming extraordinarily widespread and is being used in all areas of life. Many companies and even governments are trying to include AI in their development plans to ensure sustainable growth. It is now obvious that AI will be an integral part of our lives, but should we be afraid of it? If the development of this technology is done in a controlled and objective way, then we should not be afraid or worried. If the opposite happens, then we should start to feel uncomfortable. The most positive thing so far is the fact that these developments are being made by scientific researchers for the benefit of humanity, without monetary profitability as the main objective.

Even if there is a race to take over the market from the technology giants, now this race seems to be only to test the stability and functionality of the solutions. Meanwhile, many governments are working to regulate the entire operation of AI platforms with a certain legal framework. These legal frameworks aim to protect people's privacy and personal data. Although there is great uncertainty that AI will destroy humanity, this does not seem to be the case actually. Many stakeholders are working to control the development of this technology for the benefit of humanity. Their main aim is to take humanity to another, more advanced stage, not to destroy it. One of the other worrying things about the development of Artificial Intelligence is the high level of energy that these platforms require to function. Scientists are working on how to find an optimal consumption for these platforms, based on green energy. In principle, the use of this technology has significantly increased the need for energy in data centers, so with the increase in electricity prices and wars in the region, the operation of this technology will be very expensive and unaffordable for most of the users.

In conclusion, the development of artificial intelligence is safe and is being monitored by various regulatory entities being this state owned or private ones. Humanity must use this development to its advantage and take maximum advantage of this technology. Although there is uncertainty and fear about the impact that the development of AI will have on human life, we must be calm and prepared to use all this power to further develop human life. Digitalization and automation will be the future of technological development, and in this regard, AI will be the main driving force to ensure the longevity of humanity and the further development of technology and science always for the benefit of humanity.

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