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Do The Benefits of AI Justify Its Negatives

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Abstract

The main objective of this paper is to study the status of artificial intelligence (AI) when it becomes Artificial General Intelligence (AGI), meaning real-world AI applications and beyond that. Amplifying the unrealistic ends of AI may sometimes make us lose the message of life and sanctify this superior intelligent machine. However, super AI may be safe and beneficial to us when it is enforced to act according to the programming compliances embedded in it, i.e., to serve and secure humans. The truth is that no one can dismiss the fact that AI has become a useful technology, and hence nobody can stop it. But improving its applications and securing its threats. Hence, the effective resolution for a company or state is to allow the benefits of AI to flow while ensuring its risks and challenges are well managed. Is this realized today versus the distant philosophies and competitions? This is what the paper clarifies.

Keywords: AI, Super Intelligent, Neural Networks, Deep Learning, Machine Learning (ML), AGI.

1. Introduction

AI is now having an impact everywhere, from machines, robots, and cars to mobile voice assistance and many more applications. AI is influencing the future of every industry and changing the lives of every human being. AI has seemed to be the driving force behind all the new technologies such as massive databases, advanced robotics, smart networks, and the Internet of Things. AI innovations will continue in the near and far future [1].

AI works decently at adding speed, power, knowledge, convenience, and intelligence to most industries. This results in the delivery of efficient and effective services and the provision of comforts and the luxuries of life. All of this is reflected in increased business productivity and ROI. However, it is clear that interested countries and giant companies are working carefully and intelligently to exploit this technology, building an artificial smart agent and enabling it to outperform humans. The more people go about doing this without analysis, strategy, and maturity, the more AI flaws will be bad. Accordingly, the critical AI challenges may lead to the loss of the basic and valuable principles of life, without which our being as humans is meaningless.

The institutions' leaders use AI to make policies and strategies, and they will involve AI in decision-making. This will apply to organizations in the health, commercial, engineering, education, and other fields. These contributions have been starting to become apparent, and companies are planning to invest in this technology because of its minimum errors and maximum productivity [2]. However, AGI refers to AI systems capable of executing complex tasks that only a human could do, such as reasoning, making decisions, or solving problems, causing the AGI practice to be risky and challenging.

Exaggerating the dominance of super-intelligent agents (SIA) would make us lose benefits to negatives such as freedom to tyranny, fairness to bias, security to chaos, safety to destruction, and faith and ethics to anything else evil! Even more, all of this may be done for an unknown future, more power or extra money at the expense of life purpose, life mission, and life vision. God created us as human beings with superior qualities, bright minds, and lofty morals. Refusing these divine gifts and replacing them with an unchecked and unbridled desire would be very risky. Punishment could be near and severe with our own hands and from within ourselves, God forbid [3]. All of us will disappear in 100 years, but the right question is, "What the future plan for our generations to come?" If the answer is to create an

intelligent machine superior to them, that would be sad and ridiculous! Once more, the amplification of AI would cause us and our generations chronic and irreversible damage. This section will be followed by the paper's theory, results, and conclusion sections. Due to the huge details of the topic, brief bolts are utilized as needed.

2. Theory & Mechanisms

AI Mechanisms: The most important AI mechanisms that are well known in the industry [4] can be introduced as follows.

Cognitive Computing

Cognitive Computing It is the use of computerized models to simulate the human thought process in complex situations where the answers may be ambiguous and uncertain.

Neural networks

A neural network is a computing system, inspired by the natural neural network of the human nervous system. It is sometimes Artificial Neural network (ANN).

Robotics

It is an AI branch, which is composed of Electrical Engineering, Mechanical Eng., and Computer Science for designing, construction, and application of robots.

Expert systems

Expert systems are the computer applications developed to solve complex problems in a particular domain, at the level of extra-ordinary human intelligence and expertise.

Fuzzy Logic Systems (FLS)

Fuzzy Logic Systems produce acceptable but definite output in response to incomplete, ambiguous, distorted, or inaccurate (fuzzy) input.

Natural Language Processing (NLP)

NLP refers to the AI method of communicating with intelligent systems using a natural language such as Arabic or English.

G. Computer Vision (CV)

Computer vision algorithm tries to understand an image by breaking down an image and studying different parts of its objects. This helps the machine classify and learn from a set of images, to make a better output decision based on previous observations.

Machine learning (ML)

Machine learning ML or Deep learning, is a type of AI that allows software applications to become more accurate at predicting outcomes without being explicitly programmed to do so. Machine learning algorithms use historical data as input to predict new output values. Fig(1) below shows a sample of AI mechanisms.

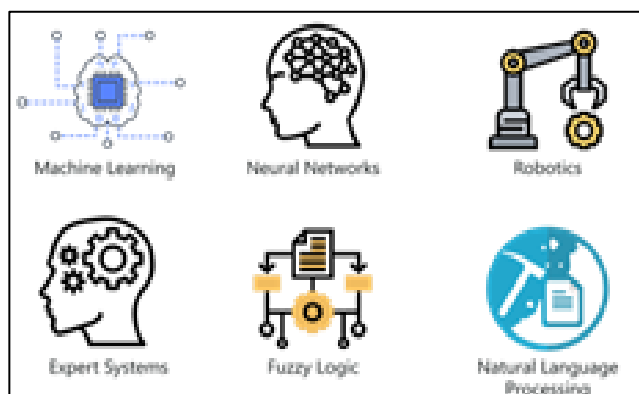


Fig 1: Sample of AI Mechanisms

3. Results

The following consequences of data and information are collected from different sources, including research papers, textbooks, surveys, observations, personal interviews, videos and experiments. The reports from ERP and CRM systems, as well as other documents issued by large and well-known organizations [5]. Samples of AI up-to-date results are presented in Tables (1) and (2), also displayed in Figures (2) and (3) respectively. The subsequent bolts introduce recent results related to various AI global applications and projects [5].

- A massive 93% of automation technologists feel little prepared for upcoming challenges regarding smart machine technologies.
- Reports indicated that the number of new companies in the field of AI may reach 9,000 companies by the end of 2030.
- The top 3 most significant challenges companies face when considering AI are staff skills (56%), the fear of the unknown (42%), and finding a starting point (26%).
- In 2022, companies are anticipated to have an average of large 35 AI projects in place.
- 20% of businesses say automating tasks such as invoicing and contract validation is the second most crucial use of AI.
- 80% of retail executives expect their companies to adopt AI-powered intelligent automation by 2027.
- As of 2022, only 7% of companies don't utilize AI but are looking into it.
- The proportion of deep learning output accuracy is 90% for millions of times versus 99% for a human.
- 86% of CEOs say AI is mainstream technology in their environment in 2021.
- Driving a stable, secure, and reliable autonomous car needs 20 years from today.
- Human AI will take decades to occur, they could be 3, 5, 8, or more decades according to different AI Scholars, perhaps less than this. It could be anticipated by 2030.
- The defects of AI are almost one for every ten thousand of its benefits, but they are dangerous and catastrophic when they occur.
- In 2020, 39% of large organizations planned to invest in AI technology.
- 75% of executives fear going out of business within five years if they don't scale AI.

4. Discussion

AI is a wide-ranging technology that enables researchers to rethink how to analyze data, integrate information, and use the resulting insights to improve decision making—and already it is transforming every walk of life. In their report [6], Darrell West and John Allen discuss AI's application across a variety of sectors, address issues in its development, and offer recommendations for getting the most out of AI while still protecting important human values. Here are the main points that can be cultivated as the outcomes of the analysis and discussion of the above results.

- The leakage of wrong AI decisions into smart armament can cause disasters.
- AI mixes people socially, culturally, and digitally, reducing pluralism.

- AI risks are ahead of us, once think they are far away, they may occur unmanageably.
- Super intelligent is a machine that is smarter than the human and it may supreme him if he allows it to.
- R&D hot topics will continue in AI deep learning, data mining, AI sentient & security.
- If AI is not regulated, AI immature risky adventures may occur due to any cause.
- Organizations and countries should cooperate to regulate AI for everyone's benefit.
- In AI human psyche and innate predisposition can change negatively due to the immature development of

- AI.
- AI relieves the impact of social/psychological problems, but never resolves them totally.
- After SI, computers start programming themselves and be man-independent.
- This is why analysts and SMEs keep saying, the optimum AI strategy is to accept AI's advantages and manage its negatives.

Table 1: AI Use in Businesses Worldwide.

1- 80% of retailers to adopt AI automation by 2027.
2- 93% of companies use AI.
3- 86% of CEOs say AI is in their office in 2021.
4- 48% of companies use data analysis, ML, or AI.
5- 39% of large Orgs planned to invest in AI, in 2020.
6- 75% of CEOs fear going out of biz in 5 yrs if don't scale AI.
7- 40% marketing/sales depts. prioritize AI/ML for success.
8- AI annual growth rate between 2020 & 2027 is 33.2% .
9- China will be AI leader, by 26.1% of the market, by 2030.
10- AI will hit \$15.7 Trillions , or 26% increase in GDP, 2030.

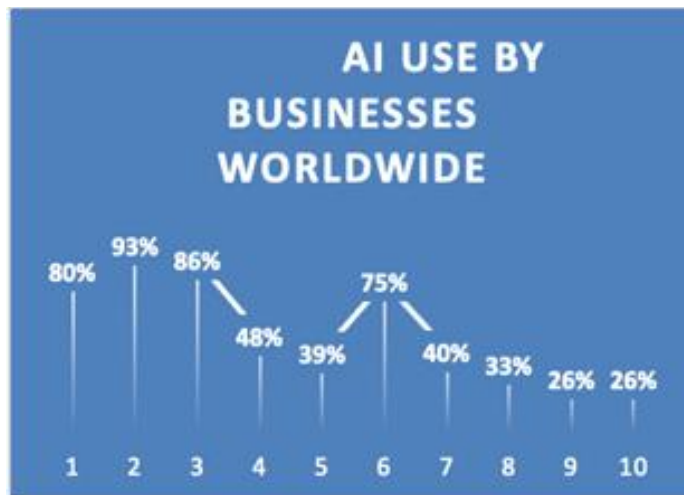


Fig 2: AI Use by Businesses worldwide

Table 2: AI Market Revenue – Worldwide.

Year	2018	2019	2020	2021	2022	2023	2024	2025
USD	10.1	14.7	22.6	34.9	51.3	70.9	94.4	126

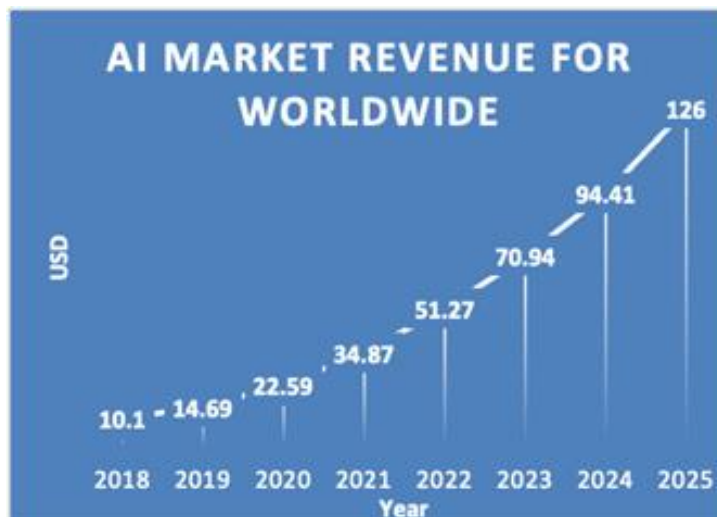


Fig 3: AI Market Revenue – worldwide.

5. Summary & Conclusions

Regardless of the uncountable benefits of AI, its severe dangers are ahead of us. Elon Musk, AI guru, issued a warning: "Mark my words," he said, "AI is far more dangerous than nukes." He added, "I am really quite close... to the cutting edge in AI, and it scares the hell out of me," He told his SXSW audience, "It's capable of vastly more than almost anyone knows, and the rate of improvement is exponential." Including Musk, many AI experts today immediately outsmart humans when real-world AI is realized. The CEO and Product Architect of Tesla believes that computers will be Elon Musk's next big thing, but when it comes to artificial intelligence, Elon has very different ideas. He calls AI the most extensive warning to humanity [7]. Before it is too late, international AI norms and regulations should be available and agreed upon globally.

AI should be dealt with as a machine learning. It can't be a human, but it can do tremendous tasks a human does. Most of the time, AI can perform faster, easier, and more accurate than a human. Yet, the philosophy of living forever by AI is impossible, because AI is soulless and the living soul is God's creation and will. Quran says: "And they ask thee about the soul, "Say: The soul is by the commandment of my Lord, and of knowledge, you are given but a little." [8]. Here are some final summaries and concluding statements.

- AI cons could be less than 0.0001% of its pros but the cons may be very dangerous and tragic!
- The philosophy of living forever via the means of advanced AI is impossible. Again, the living spirit is God's Secret.
- AI is a machine learning, but it can be intelligent complement and assistant to man.
- Human AI won't exist, it's only a name, yet AI could be smarter than a human, but without a soul.
- The human psyche and innate predisposition can change negatively due to the immature development of AI.
- None-exchange data globally among AI companies or states causes bias in AI outputs.
- AI development without technical, cultural, and demographical best practices would deliver invalid algorithms.
- More sights, strategies, policies, and ideas on Artificial General Intelligence are available for future studies [12].

References

1. Built in for Tech & Startups, The Future of AI: How Artificial Intelligence Will Change the." Mike Thomas, Dec 2021.
2. Martin Ford, "Architects of Intelligence: The truth about AI from the people building It"
3. Quran, Chapter, Al-Baqarah, Verse #211.
4. Great Learning Team, "What is Artificial Intelligence? How does AI Work, Types and Future of it?", Oct 19, 2021.
5. Georgi Todorov, "65 Artificial Intelligence Statistics for 2021 and Beyond", Semrush Company, Feb 26, 2021.
6. Darrell M. West, John R. Allen, "Turning Point: Policymaking in The Era of Artificial Intelligence," Barnes & Noble, Pub., 07, 28, 2020.
7. European Business Review, "Find What Elon Musk Said About Real World AI?", April 22, 2021.
8. Quran, Chapter Isra, Verse #85.
9. Ahmed Aburas, Abdussalam Addeeb, "Digital Image Restoration via Neural Networks Design.", Int. Journal of Scientific Research and Publications, Vol 11 Issue 9, Sep, 2021.
10. Abdussalam A. Addeeb, Aboubaker M. Shahraan "Profound Training & Learning for Ear Recognition", Elmergib University, 6th. Scientific Conference, AlKhums, Libya, December, 2017.
11. Jerome Glenn, "Artificial General Intelligence Issues and Opportunities", The Millennium Project, Feb, 2023.