

Artificial Intelligence: The Death of Creativity

Outline

1- Introduction.

AI has placed both negative and positive impacts in human life. With all these impacts, it cannot cause death to human creativity. It only mimics human creative behaviours.

2- Deconstructing the term 'Artificial Intelligence' and creativity.

3- Why AI is not the death of human creativity. (Thesis)

a- It only operates on the data fed in its operating system.

b- It cannot adapt and evolve without human assistance.

c- It lacks imagination and intuitions.

d- It cannot generate entirely new ideas i.e self-expression.

e- It lacks emotions and empathy, leading towards lack of creativity.

4- If not an alternative to human creativity, it is proving to replace humans in many other fields.

- a- It is more efficient than humans while operating with large computing data.
- b- It proved to be enormously helpful in industries like healthcare, automobiles etc.
- c- It creates works of art and literature.
- d- It provides more ample and accurate information than humans.
- e- It is unbiased to social, cultural and religious differences.

5- AI has replaced humans with its intelligence but it cannot cause death to human creativity.

- a- Its efficiency is limited to the provided data.
- b- It only gives optimal solutions, not creative solutions.
- c- It only mimics human creative behaviours.
- d- Provision of ample information ~~can~~ increases ethical concerns i.e Cambridge Analytica Scandal
- e- It can perpetuate biases depending on provided information.

6- Conclusion.

"Imagination is more important than knowledge. Knowledge is limited. Imagination encircles the world." (Albert Einstein) This quotation by Einstein shows that knowledge and intelligence can have a limit but imagination is limitless and imagination paves path to creativity. AI has placed both negative and positive impacts in human life. But with all these impacts, it cannot cause death to human creativity. Hence, it only mimics human creative behaviours. AI is not the death of human creativity as it only operates on the fed. data. Moreover, it lacks imagination, intuitions, emotions etc which are generally needed for creative thinking. It cannot generate new ideas as it cannot adapt to the new changes without human assistance. Even though it is not an alternative to human creativity but it is proving to replace humans in many ways. It is more efficient and less time consuming than human working. It has an ample knowledge relating to any field of work either social sciences or pure sciences. Moreover, it can generate works of art and literature. Having all these marvellous features, it is still overly dependent on humans as its efficiency is based on the humanly fed. data. Moreover, it only mimics the works of art and literature and its provision of ample knowledge cannot prove to be a replacement of human creativity.

Artificial intelligence (AI) is basically the ability of a digital computer or computer controlled robots to perform tasks that are commonly associated with intelligent beings. It is often depicted as a humanoid robot but it is just programs and codes. It has basically three stages namely 'Artificial Narrow Intelligence (ANI)', 'Artificial general intelligence (AGI)' and 'Artificial Super intelligence (ASI)'. The world has currently devised ANI which works in a specific direction. AGI and ASI will have human intelligence and more than human intelligence respectively, but these are yet to be accomplished. So, at present, AI does not have the capability to reach a level of human creativity. As creativity is the use of imagination to create something novel. It is related to innovation and inventiveness. It breaks the traditional patterns of thought, findings solutions to the newly emerging problems. So, creativity is related to cognition.

operates AI is not the death of human creativity as it solely on the data fed into its operating system by humans, serving as a reflection of human knowledge. While it can process vast amount of data and use this data for the better and efficient working of humans but it cannot think or imagine on its own to develop the knowledge and data base of its own. According to International data corporation (IDC), global data storage in AI will reach 180 zettabytes by 2025 (IDC, 2020). Hence, AI is not creative enough to

develop its own intelligence by gathering knowledge on its own. So, it cannot create death to human creativity.

Moreover, AI cannot adapt and evolve at its own. Humans have the creative ability to utilize their past experiences, social, political, cultural and religious values and contexts to adapt in certain situations. Furthermore, humans can evolve with the changing circumstances but AI lacks intrinsic mechanisms for self-improvement and adaptation. It relies on human intervention for updates, modifications and improvements. While its algorithms can learn from the data and adjust its behaviour within predefined parameters but it cannot autonomously change its fundamental structure. Hence, AI can adopt the changes set in its data base but it cannot adapt and evolve at its own.

Furthermore, AI lacks imagination and intuitions which are considered as basis for human creativity. AI systems are driven by algorithms and lack the capacity for creative thoughts or abstract reasoning beyond the programmed capabilities.

Marcus in his book "The Algebraic Mind" comments that this limitation of AI underscores the irreplaceable role of human creativity and intuition in various domains of life. Therefore, AI cannot prove to be the death of human creativity as imagination and intuitions

are purely human traits which, this version of AI, cannot replace.

In addition, AI currently lacks the ability of self-expression and generation of entirely new ideas. Self expression is a fundamental aspect of human communication and creativity in which humans convey thoughts, emotions and experiences in a personal manner. While AI only mimics human language and produces text speech based on learned patterns. Therefore, it lacks subjective experiences and emotional depth required for self expression. Similarly, AI can analyze existing data and generate output, but cannot come up with entirely new ideas beyond the limits of its algorithm. So, AI cannot prove to be the death of human creativity. The scope of human creativity remains with the usage of AI.

Likewise, AI lacks emotions and empathy which are human traits making humans more creative than any other creature on the globe. Emotions play a crucial role in the creative process, influencing ^{human} perceptions, and interpretations of the world. Empathy, on the other hand, allows humans to understand others emotions, providing insight to more creative responses. AI lacks these emotional capacities, as its creativity is only limited to analytical and procedural tasks.

AI can assist in analyzing data or even producing art but its output often lacks emotional depth like any human creative work can have. Hence, AI cannot hinder human creativity in real life.

If not an alternative to human creativity, but it is proving to replace humans in many ways. While AI is more efficient than a human in operating large computing data so it has replaced men jobs in business where previously large data were handled by humans. This efficiency has led to AI's widespread adoption across various industries including finance, healthcare, automation and manufacturing industries. AI powered algorithms can sift through massive datasets to identify trends, detect anomalies and optimize processes at a speed and scale that surpass human capabilities. According to a report by Mckinsey, AI driven automation has the potential to increase global productivity growth by upto 14% annually. It shows that AI has more efficiency in computing large data than humans.

Moreover, it proved to be enormously helpful in industries like healthcare and automobiles and gives a better alternative to human facilities. In healthcare, AI powered diagnostic tools, such as image recognition algorithm, have significantly improved detection

and diagnosis of diseases. For example, Google's DeepMind has developed an AI system that can analyze medical images and diagnose diseases like diabetes with high accuracy, while by humans it was less accurate and more time consuming. Additionally, AI is driving advancement in self operating automobiles. Companies like Tesla and Waymo are leveraging AI algorithms to develop self driving cars which are reducing the incidents of accidents caused by human errors. So, AI is proving to be a better placement than humans in industrial works.

Furthermore, AI has demonstrated remarkable capabilities in generating works of art and literature. AI algorithms analyze vast amount of existing artistic and literary content to generate new compositions in various styles. For example, OpenAI's GPT-3 can be used to generate poetry, short stories, novels having linguistic coherence like any human author. Additionally, AI powered GANs can create visual arts, music etc. IBM Watson, a highly intelligent AI, has created a trailer for a Hollywood horror movie, Morgan. So, AI can generate creative works like art and fiction and it has the capability to replace human creativity with an AI creativity.

Likewise, AI provides ample and accurate information more than any human being. As it has an access to extensive database and computational algorithms, it quickly retrieve, process and analyze information which would seem impractical and impossible for a human to achieve. Additionally, human mind has a limit to store and recall information. It can work better in peaceful environment. Its retrieving power is not limitless as AI. AI works in fraction of seconds to collect billion tons of data for any purpose and saves time and effort by providing fast, accurate and efficient information.

Additionally, AI is unbiased to social, cultural and religious parameters. AI researchers and developers employ techniques such as data preprocessing, algorithm transparency and fairness aware learning, aiming to identify and address bias at various stages of AI life cycle. Experts of different domains of AI are trying to ensure that AI accounts for diverse social, cultural and religious perspectives and adhere to principles of fairness and transparency. While, in humans, it is impossible to think that a human can be unbiased to social and cultural and religious values no matter how much effort one puts to remain unbiased but there lies certain biasedness which cannot be coped.

Eventhough, AI has moved ahead of humans with respect to its intelligence but it cannot cause death to human creativity. Humans have fed alot of data in AI data base and algorithms. Its efficiency is based on the provided data. It works more effectively and effortlessly than humans when it comes to utilizing that data in analytical, logical, scientific and mathematic operations but when it comes to creativity, AI cannot have the ability to imagine new and different ideas that breaks the traditional patterns of saved information. So, at this time, AI cannot beat human Creativity.

Moreover, AI proved to be more effective while finding solutions to the issues in different fields but it only gives optimal solutions and not the creative ones. For example, If the solution for decreasing the rates of deaths in public hospitals is asked to an AI system, the optimal solution is not to admit any patient having severe illness that can cause death but the creative solution might be to enhance the facilities of hospital, giving patient best medical treatment provided by the best medical staff so on and so forth. So, as AI does not comeup with new ideas, it cannot give creative solutions to the problems.

Furthermore, when it comes to AI generating art and literature, it does not mean that AI is doing it on its own. AI is just an operating system which mimics human creative behaviour, or it generates a work of art depending upon the commands given to it by any human. Human creativity is influenced by the subjective experiences, emotions, and social, cultural, religious or political contexts, resulting in an entirely unique and new human creation. The work of art created by AI lacks inspiration, intuitions and emotional depth. Therefore, while AI can augment certain aspects of creative work, it cannot replace the essence of human creativity.

Additionally, provision of ample information by AI leads to ethical concerns. The information present in AI database can be misused for personal interests and can infringe harm to the sentiments and privacy rights of the general public. Cambridge Analytica scandal serves as a poignant example of the ethical concerns surrounding the ^{provision of} ample information by AI where data analytics from Cambridge Analytica used personal information from millions of Facebook users without their consent, using it to influence political campaign and analyze voter behaviour. So, AI systems can be misused and they are heinous for privacy rights and public opinion.

In addition, AI is not completely unbiased. It perpetuates biases depending upon the data stored in it. The AI algorithm systems have mostly western opinions and point of views, so often reflects biases. In an Article, "What AI can and can't do for your business", the authors refers to the biases in AI algorithm for facial skin colour, with lower performance accuracy for individuals with darker skin color i.e non-western facial features or skin colour. It show that AI can be biased depending on the information fed in the system. So, AI cannot replace human creativity in the present time.

To cut the matter short, AI cannot cause death to human creativity. Even though, it has replaced humans physically and mentally by providing more efficient and less time consuming operations through its algorithm but it cannot exceed human creativity as creativity is related to imagination and AI cannot imagine at its own. Moreover, It lacks intuitions, emotions and empathy required to create a self-expressive work of art. Furthermore, AI cannot adapt or evolve with the changing circumstance as humans can do and this adaption leads to experiences bringing novelty and innovation with creativity. ~~AI~~ To

conclude, AI can be a great equalizer to human intelligence but it cannot cause death to human imagination and creativity.

"Imagining something is better than remembering something"

(John Irving) - American Novelist