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# Exploring the Pros and Cons of Artificial Intelligence (AI): Implications for Human Rights and Artificial Intelligence Development in India

## Dr. Dayanand Naik

Associate Professor, Department of Political Science, Mangalore University. Email: drdayanandnaik@gmail.com

Abstract: Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think and learn like humans, with the ability to adapt and improve their performance over time. According to renowned AI researcher Stuart Russell, "Artificial Intelligence is the study of how to build intelligent agents, which are systems that perceive their environment and take actions that maximize their chance of success at some goal" (Russell, 2020). Another definition of AI comes from the Association for Computing Machinery (ACM), which defines AI as "the theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and language translation" (ACM, 2018). Artificial Intelligence (AI) has made tremendous progress in recent years and has the potential to revolutionize the way we live and work. However, there is growing concern about the impact of AI on human rights. In this article, we will explore the Pros and Cons of AI, theStatus of AI in India, the ways in which AI intersects with human rights and the challenges that need to be addressed in order to ensure that AI respects and protects human rights.

Key Words: Artificial Intelligence, human rights, Right to privacy.

# 1. INTRODUCTION:

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think and learn like humans, with the ability to adapt and improve their performance over time. According to renowned AI researcher Stuart Russell, "Artificial Intelligence is the study of how to build intelligent agents, which are systems that perceive their environment and take actions that maximize their chance of success at some goal" (Russell, 2020). Another definition of AI comes from the Association for Computing Machinery (ACM), which defines AI as "the theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and language translation" (ACM, 2018).

# 2. Pros and Cons of Artificial Intelligence:

Artificial Intelligence (AI) has become an increasingly popular topic in recent years, with many people wondering whether it is a bane or a boon. Some view AI as a threat to human jobs and autonomy, while others see it as a powerful tool for solving complex problems and improving our lives. Here we shall explore both sides of the debate and try to answer the question: Is Artificial Intelligence a bane or a boon?

#### Cons

One of the main concerns about AI is its potential impact on jobs. As AI becomes more advanced, there is a risk that it could replace human workers in many industries, leading to mass unemployment and economic upheaval. A World Economic Forum (WEF) report estimates that AI could displace 75 million jobs by 2022. Another concern is the potential for AI to be misused by governments or corporations for nefarious purposes. For example, AI could be used to create highly targeted propaganda or to monitor and control the behavior of citizens. There are also concerns about the ethical implications of AI. As AI becomes more advanced, it raises questions about the nature of consciousness, free will, and responsibility. Some worry that AI could become so intelligent that it surpasses human intelligence and becomes a threat to our very existence.

## Pros of AI

Despite these concerns, there are many who see AI as a powerful tool for solving some of the world's most pressing problems. With advances in technology, AI is now being used in a wide range of sectors and fields such as:

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#### Healthcare

One of the most promising applications of AI is in the field of healthcare. AI can be used to analyze large amounts of medical data and develop personalized treatment plans for patients. For example, AI can help diagnose diseases such as cancer and Alzheimer's by analyzing medical images and identifying patterns that may not be visible to human doctors. AI can also help identify potential drug interactions and side effects, improving patient outcomes.

#### **Finance**

AI is also being used in the finance industry. AI algorithms can analyze vast amounts of financial data and identify patterns that can help traders and investors make more informed decisions. AI can also be used to detect fraud and predict market trends, helping financial institutions reduce risk and improve profitability.

# Manufacturing

AI is also transforming the manufacturing industry. AI can be used to optimize production processes, reducing waste and improving efficiency. AI can also be used to monitor equipment and detect potential issues before they cause downtime or other problems. Additionally, AI can be used to develop predictive maintenance schedules, reducing the need for manual inspections and maintenance.

#### Retail

AI is also being used in the retail industry. AI can be used to analyze customer data and develop personalized marketing campaigns. AI can also be used to optimize supply chain processes, reducing costs and improving efficiency. Additionally, AI can be used to develop chatbots and virtual assistants, providing customers with personalized service and support.

# **Transportation**

AI is also transforming the transportation industry. AI can be used to optimize traffic flows and reduce congestion, improving efficiency and reducing emissions. AI can also be used to develop autonomous vehicles, reducing the need for human drivers and improving safety. Additionally, AI can be used to develop predictive maintenance schedules, reducing downtime and improving reliability.

Another potential benefit of AI is its ability to improve our understanding of the world around us. AI can be used to analyze complex systems and identify patterns and relationships that are difficult for humans to discern. This can lead to new insights and discoveries in fields such as physics, biology, and astronomy.

AI can also help us address some of the most pressing challenges facing humanity, such as climate change, food security, and poverty. By analyzing data and developing predictive models, AI can help us make more informed decisions and allocate resources more efficiently.

#### 3. Status of AI in India:

Artificial Intelligence (AI) is transforming industries and societies around the world, and India is no exception. In recent years, India has emerged as a major player in the global AI landscape, with a thriving AI startup ecosystem, strong government support, and a growing pool of talent. Here, we shall explore the state of AI in India and its potential impact on the country's economy and society.

#### AI startups in India

India's startup ecosystem is rapidly evolving, and AI is playing a major role in this evolution. According to a report bythe National Association of Software and Service Companies (NASSCOM), India's software and services industry body, India is home to more than 1,200 AI startups, making it the third-largest AI startup ecosystem in the world, after the US and China. These startups are working on a wide range of AI applications, from chatbots and virtual assistants to predictive analytics and autonomous vehicles.

Some of the most promising AI startups in India include Haptik, a conversational AI platform that provides chatbots and voice assistants for businesses; Niramai, a health-tech startup that uses AI to detect breast cancer; and SigTuple, a MedTech startup that uses AI to analyze medical images.

# **Government support for AI**

The Indian government has recognized the potential of AI to drive economic growth and improve the quality of life for its citizens and has launched several initiatives to support the development and adoption of AI. In 2018, the government launched the National AI Strategy, which aims to make India a leader in AI research and development by



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Publication Date: 31/03/2023

2030. The strategy includes a focus on building AI talent, promoting research and development, and establishing ethical and regulatory frameworks for AI.

The government has also launched several programs to support AI startups and research. The Atal Innovation Mission, a flagship program of the government, provides funding, mentorship, and incubation support to startups working on AI and other emerging technologies. Additionally, the government has established several research institutions, such as the Centre for Artificial Intelligence and Robotics (CAIR) and the Indian Institute of Technology (IIT), which are conducting cutting-edge research in AI.

#### Impact on the economy and society

The growing AI ecosystem in India has the potential to have a significant impact on the country's economy and society. According to a report by Accenture, AI has the potential to add \$957 billion to India's economy by 2035. AI can help drive productivity gains in key sectors such as healthcare, agriculture, and manufacturing, and can create new business models and revenue streams. AI can also improve the quality of life for Indians by addressing some of the country's most pressing challenges. For example, AI can be used to improve access to healthcare in rural areas, where there is a shortage of doctors and medical facilities. AI-powered diagnostic tools and telemedicine platforms can help patients receive timely and accurate diagnoses and treatment, regardless of their location. However, there are also concerns about the impact of AI on jobs and inequality in India. As AI and automation replace certain jobs, there is a risk that certain segments of the population, such as low-skilled workers, will be left behind. It is important for the government and other stakeholders to ensure that the benefits of AI are shared equitably across society.

### 4. AI and Human Rights:

Artificial Intelligence (AI) has made tremendous progress in recent years and has the potential to revolutionize the way we live and work. However, there is growing concern about the impact of AI on human rights.

## AI and the right to privacy

One of the most significant concerns related to AI and human rights is the right to privacy. AI has the ability to collect, analyze, and use vast amounts of personal data, which can lead to the violation of privacy rights. For example, facial recognition technology has been used in some countries to track and monitor individuals, raising concerns about government surveillance and the infringement of privacy rights.

One example of AI infringing upon the right to privacy occurred in the United States, where Clearview AI, a facial recognition company, scraped billions of images from social media platforms without the consent of the individuals in those images (Thompson, 2020). This raised significant concerns about the right to privacy, as individuals were being identified and tracked without their knowledge or consent.

Another example of AI infringing upon the right to privacy comes from China, where the government has implemented a social credit system that uses AI to monitor citizens' behavior and track their movements (Griffiths, 2019). This system has been criticized for its potential to violate privacy rights and restrict individuals' freedoms.

Moreover, there have been instances where AI-powered voice assistants, such as Amazon's Alexa, have been found to record and store user conversations without their knowledge or consent (Wakabayashi, 2019). This type of privacy infringement raises concerns about how companies are using personal data and the extent to which individuals can control their personal information. To address these concerns, several international organizations, such as the United Nations, have emphasized the importance of protecting the right to privacy in the development and deployment of AI technologies. In particular, they have called for the adoption of privacy by design principles, which would require AI developers to incorporate privacy considerations into every stage of the development process. For example, AI systems should be designed to minimize the collection and retention of personal data, and to provide individuals with clear and meaningful information about how their data will be used.

# AI and the right to non-discrimination

Another human right that is affected by AI is the right to non-discrimination. AI systems can perpetuate and amplify biases and discrimination, both intentional and unintentional. For example, an AI system trained on biased data may produce discriminatory outcomes, such as denying loans or employment opportunities to certain groups of people.

**Facial recognition**: Facial recognition technology has been criticized for its potential to discriminate against certain groups of people, such as people of color, women, and elderly individuals. Studies have shown that these systems can have higher error rates for certain groups due to biased data used to train them (Buolamwini&Gebru, 2018).

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**Hiring and recruiting**: AI-powered hiring systems have also been accused of perpetuating discrimination by replicating and even amplifying the biases of human recruiters. A study by researchers at MIT found that an AI-powered hiring tool developed by Amazon was biased against women, as it had been trained on resumes submitted to the company over a 10-year period, during which there were fewer women in technical roles (Dastin, 2018).

**Credit scoring**: AI has also been involved in discriminatory practices in credit scoring, as it may use biased data to evaluate creditworthiness. For example, a study by the National Consumer Law Center found that some credit scoring systems used data such as zip codes and education levels, which may be proxies for race, to determine creditworthiness (National Consumer Law Center, 2019).

These examples demonstrate how AI can perpetuate discrimination and bias in different contexts.

To address these issues, it is important to ensure that AI systems are developed and deployed in ways that promote fairness and non-discrimination. This may involve taking steps to identify and mitigate bias in training data, as well as developing AI systems that are transparent and explainable. Additionally, it may be necessary to establish legal and regulatory frameworks that prohibit the use of AI in ways that discriminate against certain groups.

## AI and the right to freedom of expression

AI can also have an impact on the right to freedom of expression. For example, some social media platforms use AI algorithms to moderate content, which can result in the censorship of certain viewpoints. Additionally, AI-generated content, such as deepfakes, can be used to spread misinformation and undermine public trust in information.

**Content moderation**: Social media platforms use AI algorithms to moderate content on their platforms. However, these algorithms have been criticized for their lack of transparency and potential to suppress free speech. For example, YouTube's algorithm has been accused of demonetizing videos that discuss controversial topics, effectively limiting the revenue streams of creators who express certain viewpoints (McAlone, 2020).

**Censorship**: Some governments have used AI to censor online content and suppress free speech. For example, China has implemented a "Great Firewall" that blocks access to certain websites and censors online content using AI-powered algorithms (Huang, 2020).

**Bias in search results**: AI-powered search engines and recommendation systems can also limit access to information and perspectives. For example, a study by researchers at Columbia University found that Google's search algorithm displays biased results for certain queries, which can impact the information that users are exposed to (Robertson et al., 2018).

These examples demonstrate how AI can infringe upon the right to freedom of expression by limiting access to information, suppressing certain viewpoints, and reinforcing biases.

To ensure that AI respects and promotes freedom of expression, it is important to develop AI systems that are transparent and accountable. This may involve establishing clear guidelines and standards for content moderation, and ensuring that AI systems are developed and deployed in ways that respect the diversity of viewpoints and opinions.

#### 5. CONCLUSION:

AI has the potential to transform many aspects of our lives, but it is important to ensure that its development and deployment are guided by respect for human rights. To achieve this goal, it is necessary to engage in ongoing dialogue and collaboration among stakeholders from different sectors, including civil society, academia, industry, and government. By working together, we can develop AI systems that promote human dignity, equality, and justice.

In Addition, AI is poised to play a major role in India's future, and the country has made significant strides in developing its AI ecosystem. However, there are also challenges that need to be addressed, such as the need to ensure that the benefits of AI are shared equitably across society. With the right policies and investments, India has the potential to become a global leader in AI and use this technology to address some of its most pressing challenges.

Finally, Is Artificial Intelligence a bane or a boon? The answer is not clear-cut. AI is being used in a wide range of sectors and fields. From healthcare to finance, manufacturing to retail, and transportation, AI is transforming the way we live and work. While there are certainly concerns about the potential negative consequences of AI, there are also many potential benefits that cannot be ignored. It is up to us as a society to carefully consider the implications of AI and work together to ensure that it is developed and used in a responsible and ethical manner.

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#### **REFERENCES:**

- 1. Buolamwini, J., &Gebru, T. (2018). Gender Shades: Intersectional Accuracy Disparities in Commercial Gender Classification. Conference on Fairness, Accountability and Transparency.
- 2. Dastin, J. (2018). Amazon scraps secret AI recruiting tool that showed bias against women. Reuters. https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G
- 3. Davenport, T. H. (2018). AI in the retail industry. Harvard Business Review, 96(1), 94-101.
- 4. European Commission. (2020). White Paper on Artificial Intelligence A European approach to excellence and trust. Brussels.
- 5. Gomero, L. A., Quiroz, J. C., &Córdova, J. P. (2020). Using artificial intelligence to improve manufacturing processes: A review. IEEE Access, 8, 145679-145692.
- 6. Griffiths, J. (2019). China's social credit system: Orwellian nightmare or a model citizen? CNN. https://www.cnn.com/2019/12/13/asia/china-social-credit-intl-hnk/index.html
- 7. Huang, Z. (2020). China's Great Firewall: A Double-Edged Sword for Online Censorship and Free Speech. The Diplomat. https://thediplomat.com/2020/06/chinas-great-firewall-a-double-edged-sword-for-online-censorship-and-free-speech/
- 8. Human Rights Watch. (2018). Discrimination by Algorithm? The Risk of Bias and Errors in Automated Decision Making.
- 9. Li, X., Ma, J., Li, Z., & Li, L. (2020). A survey of the applications of artificial intelligence in the transportation field. IEEE Access, 8, 70144-70163.
- 10. McAlone, N. (2020). YouTube's demonetization controversy, explained. Vox. https://www.vox.com/recode/2020/2/24/21147262/youtube-demonetization-explained
- 11. NASSCOM. (2019). AI Startups: Driving India's AI Growth Story.
- 12. National Consumer Law Center. (2019). Broken Credit Scores: How Inaccurate Credit Reports Hurt Consumers and What Can Be Done to Fix Them. https://www.nclc.org/images/pdf/pr-reports/report-broken-credit-scores
- 13. Robertson, R. E., Vassileva, J., Friedland, L., and Chuang, J. (2018). Algorithmic Bias in Search Engine Results: A Field Experiment. Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems. https://doi.org/10.1145/3173574.3174098
- 14. Russell, S. (2020). Human Compatible: Artificial Intelligence and the Problem of Control. Viking.
- 15. Russell, S. J., & Norvig, P. (2010). Artificial Intelligence: A Modern Approach. Pearson.
- 16. Thompson, A. (2020). Clearview AI's facial recognition tech has been used by the Justice Department, ICE, Macy's, Walmart, and the NBA. Here's what you need to know about the tech that could upend our sense of privacy. Business Insider. https://www.businessinsider.com/clearview-ai-jeff-sessions-ice-contract-database-privacy-2020-2
- 17. Topol, E. J. (2019). High-performance medicine: the convergence of human and artificial intelligence. Nature Medicine, 25(1), 44-56.
- 18. Topol, E. J. (2019). High-performance medicine: the convergence of human and artificial intelligence. Nature Medicine, 25(1), 44-56.
- 19. United Nations General Assembly. (2018). Report of the Special Rapporteur on the promotion and protection of the right to freedom of opinion and expression. A/73/348.
- 20. Wakabayashi, D. (2019). When Alexa has nothing to say, she might share your conversation with Amazon. The New York Times. https://www.nytimes.com/2019/05/24/business/amazon-alexa-review.html
- 21. World Economic Forum. (2018). The Future of Jobs Report 2018.