



# The Indian Journal for Research in Law and Management

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## IMPACT OF ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML) ON LEGAL SYSTEM AND ITS IMPLICATIONS

### INTRODUCTION:

Intelligent machines have long been the subject of science fiction, we now live in an era in which Artificial Intelligence (AI) is a reality. People are deeply interconnected with the advent of AI and is deeply impactful in the lives of the people. From Telephones to Smart Phones, Tonga to Cars, Manual to Automatic, from Man Power to Robots the shift of the generation through technology and innovation has immensely changed the way of living. As compared to older times, where people used to be independent and tend to complete their tasks by self then as its now, where people lives are controlled and organized by the other exterior tools. This AI effect has its own pro's and con's pro's being in faster development, faster judgment, new innovations through technology less manpower etc, which has helped people benefit and also saved the time and hard work. The cons has also its effects on the growing generation where everything is turning smarter so is the techniques of criminal activities and there are more cybercrimes and syndicate controls which can be done through this. As we dwelve into the topic more we'll get to know many more things about Artificial Intelligence and its implications on the real world.

AI applications can be found in many aspects of our lives, from Agriculture to Industry, communications, educations, finance, government, service, manufacturing, medicine, and transportation are different branches of the tree connected to one.

### Q1. WHAT IS ARTIFICIAL INTELLIGENCE?

AI is a rapidly advancing field of computer science. In the mid 1950's, John McCarthy who has been credited as the father of AI defined it as “the science and engineering of making intelligent machines.” Conceptually, AI is the ability of machine to perceive and respond to its environment independently and perform tasks that would typically require human intelligence and decision making process but without direct human intervention.

## **Q2. WHY ARTIFICIAL INTELLIGENCE IS IMPORTANT FOR LEGAL FRAMEWORK?**

The Indian legal system has seen very minute change in the innovation in terms of technology and majority of the lawyer's are still comfortable with the techniques which was designed decades ago, with generation changing way of lives every day the techniques of legal framework should also change to speed up in regards of justice being served at time. These old techniques were very organized and systematic in the old times but with the speed of development and change in the society and state had led to pendency of many cases which has taken the capacity of jails and led bigger criminals to roam freely. Talking about legal framework AI as a tool can play a big part in changing the way lawyers operate and law is looked at in India.

One of the biggest disruptions caused by AI in law is that in the field of legal research. The Indian legal system is vast and constantly changing and with the use of AI lawyers can get unparalleled insight into legal domain within seconds. Currently to get legal research done a significant number of man hours is required and this significantly reduces the profit making ability of a law firm. However with AI the entire fraternity can be put into balance and also help to boost with the pendency of cases and serve justice with fair and just judgment.

Due to the unique immunity of the legal industry, the impact of previous industrial, scientific and technological revolutions on the legal profession is relatively small. From the training of lawyers to the selection of judges the mode of operation of the legal profession is still the same as that before modern times. For a long time the application of the new technology in this field is mainly limited to some non-core areas, such as improving efficiency through digital office and management system. For substantive legal solutions, such as the formation of litigation and judicial opinions, technology rarely provides substantive support making it more difficult to replace legal practitioners, however Artificial Intelligence (AI) is expected to change this reality. As a technology trying to understand the essence of human intelligence and simulate and extend the intelligence on its basis.

## **3. INFLUENCE OF ARTIFICIAL INTELLIGENCE TO THE LEGAL PROFESSION:**

From the macroscopic aspect, artificial intelligence aspect can be profoundly change in the mode of operation in the legal industry.in the field of research and development, the dependence on technology and data will determine that the investment in research and development of ai technology in the legal field will keep expanding a long time. Traditionally, the legal fraternity has been highly dependent on the human resources to provide substantive legal solutions which is costly and inefficient; for law firms the human cost is high and for a large number of individuals who belong to small towns and enterprises ,they cannot enjoy legal service at affordable prices where the people in real need of justice fighting and striving for their rights are left unnoticed as they can't afford a legal suit to run because of its high fee structures. With the strengthening of artificial intelligence it can be used as a robotic lawyers where people can get their legal aid advice and get to know more about their rights and remedies to fight for it in seconds and with computerized human intelligence people can fight for themselves. In the high level application

field, artificial intelligence for complex scenes can assist or even replace the part of the work of legal profession, forming a new human computer collaboration case processing mode. The handling of complex cases is a combination of a series of activities some of which may be participated or even replaced by Artificial Intelligence so as to improve the overall efficiency. From the current development of artificial intelligence it has been more perfect the document management and document review, which is likely to be replaced by civilian staff and legal assistants to complete the corresponding task. It is far from mature in writing legal documents, drafting cases, legal advices, communicating and interacting with customers, facts investigation etc. Artificial Intelligence technology is difficult to completely replace the legal practitioners with professional knowledge, however it is still very important to improve the work efficiency with artificial intelligence which will form a working mode for man and machine combination.

Artificial Intelligence (AI) has had a significant impact on the legal domain, revolutionizing various aspects of legal practice, research and administration. From my glean information I have got to collect some of the key impacts:

- **3.1 Legal Research:** from the recorded databases of cases and judgments it consumes time to refer through books. AI can be a very helpful tool to acquire information from various sources and provide them within seconds with accurate information.
- **3.2 Contract Analysis:** this tool can review and analyze large volumes of contract efficiently. It can be very helpful in identifying clauses, risks, and anomalies saving lawyers significant time and effort in contract review process.
- **3.3 Predictive Analysis:** AI algorithms can analyze the past case outcomes and predict the potential results of ongoing cases. It helps lawyers and clients to more stabilized decision in regarding of their case may be.
- **3.4 Legal Process Automation:** AI technologies can automate routine legal tasks such as document drafting, and document review. This would be very beneficial in improving the efficiency and also reducing the cost.
- **3.5 Legal Assistance and Chat Bots:** AI powered chat bots and virtual legal assistance can provide basic legal guidance, answer frequently asked questions, and help users navigate legal procedures.
- **3.6 Enhanced Decision Making:** AI tools can assist judges and legal professionals in making more informed decisions by analyzing legal precedents, principle, cases and statutes. While AI cannot replace human judgment, it can augment it by providing insights and identifying relevant legal principles.

Overall, the integration of AI technologies in the legal domain has the potential to streamline processes, improve efficiency, enhance decision making, and increase access to legal service. However, it also requires careful consideration of ethical, privacy, and regulatory implications to ensure responsible and equitable deployment.

#### **4. ARTIFICIAL INTELLIGENCE AS A DANGEROUS TOOL FOR CRIME PURPOSES:**

AI like any powerful technology can indeed be misused leading to potentially dangerous consequences for the society. AI could be misused for criminal purposes, some of them are mentioned below for your brief understanding;

- **4.4 Malicious Use of AI for Cyber Crime:** AI powered malware and hacking tools can exploit vulnerabilities in computer systems, data breaches, financial frauds or disruptions to critical infrastructure. Advanced AI algorithms could enable more sophisticated and targeted Cyber Attacks, making them harder to detect and defend against.
- **4.5 Manipulation of Information:** AI algorithms can be used to create convincing deep fake videos, audio recordings, or written content that spread misinformation and defame individuals. This could have serious consequences for individuals, organizations and public trust in information sources.
- **Automated Social Engineering:** AI could be used to analyze vast amounts of personal data from social media and other sources to craft highly targeted and persuasive phishing attacks or social engineering scam. Such attacks could deceive individuals into disclosing sensitive information or performing harmful actions.
- **4.1 Based or discriminatory decision making:** if AI systems are trained on biased data or programmed with discriminatory algorithms, they can perpetuate and even exacerbate existing societal biases. For example, AI algorithms used in law enforcement or judicial decision making could result in unfair targeting or sentencing of certain demographic group.
- **4.2 Weaponization of autonomous system:** Autonomous weapons powered by AI could be developed for malicious purposes, potentially leading to indiscriminate attacks or escalation in conflicts. The lack of human oversight in decision making process could increase the risk of unintended casualties and humanitarian crises
- **4.3 Disruption of Economic Stability:** AI driven financial trading algorithms could be manipulated to exploit market inefficiencies or create artificial volatility, leading to economic disruptions, market manipulation, and financial losses for individuals and institutions.

## 5. SUGGESTIONS:

To mitigate these risks, it is crucial for policy makers, researchers, and industry stakeholders to prioritize ethical AI development, promote transparency and accountability in AI systems, and establish robust regulatory frameworks to govern the responsible use of AI technologies. Additionally, cyber security measures should be strengthened to defend against AI enabled cyber threats, and international cooperation is essential to address the global challenges posed by the misuse of AI for criminal purposes.

## 6. CONCLUSION

With all the glean information that I have acquired through the research, in conclusion, the future of Artificial Intelligence hold immense promise for advancing society in numerous domains, from healthcare to transportation to education and environmental sustainability. However realizing the full potential of AI requires a concerted effort to safeguard against its misuse and mitigate associate risks. As AI technology became increasingly integrate in our daily lives, it is paramount to prioritize ethical consideration, transparency and accountability in their development and deployment.

To ensure that AI benefits all members of the society and upholds Fundamental Rights and Values, stake holders must work collaboratively to establish robust regulatory frameworks and ethical guidelines. These frameworks should address issues such as data privacy, algorithmic bias and accountability for AI driven decisions. Moreover, ongoing research for the entire AI safety and security is essential to identify and mitigate potential risks, including malicious use of AI for criminal purposes.

Education and Public Awareness are also key to fostering responsible AI Ecosystem. By promoting digital literacy and ethical awareness individuals can make informed decisions about the use of AI and advocate for ethical practices. Ultimately, the future of AI should be prioritizing human wellbeing, respects diversity and inclusion, and foster trust and confidence in AI system. By embracing principles of responsible innovation and collective stewardship, we can harness the transformative potential of AI while safeguarding against its misuse.

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