

Impact of Artificial Intelligence on the Legal Sector: A Study in Indian Scenario

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ABSTRACT:

The millennium age has arrived; it is an era beyond intellect that is broadening its horizons in several directions thanks to new developments in computer technology. By utilizing such sophisticated computer technology, significant human duties are replaced by it. This is actually an Artificial Intelligence. Almost every industry in the globe, including the legal sector, software sector, education system, and automobile sector, is affected by it. It is undeniably true that this new technology will inevitably generate problems for the judicial systems around the world. Despite this, there is evidence that the legal system, particularly the Indian legal system, has not altered much through the years. This is evident because attorneys are continuing to practice law in the same manner they always have, following the same routine while also continuing to be overburdened with cases and under pressure to reach a rapid resolution. Therefore, it is crucial to note the benefits and ease that artificial intelligence brings. It assists legal practitioners in streamlining their work process because it has improved accuracy and speed. Additionally, some cutting-edge legal AI software products, such as Catalyst, Ross intelligence, etc., with their natural language processing technology, offer an efficient way of resolving disputes, clearing the air and facilitating quick access to justice as well as new challenges. In the short term, it is possible to anticipate increased legal transparency, more efficient and speedy justice, an increase in the productivity of legal professionals, etc., but it is very challenging to predict the long-term effects of artificial intelligence on the legal industry while keeping in mind the significance and aura of the sector. Therefore, this paper addresses the benefits and drawbacks of AI for the legal sector and offers the required reforms for a more promising yet straightforward future.

INTRODUCTION

The Fourth Industrial Revolution heralds a number of global developments in the world's social, political, cultural, and economic spheres. Since the digital technology created by the third revolution will dominate the fourth, a significant portion of this revolution will involve innovation across many industries. The Fourth Industrial Revolution is mostly driven by artificial intelligence. All facets of human life—from homes and workplaces to public spheres—are affected by its use. Self-driving automobiles are just one example of a mechanism where the effect is already apparent. Similar ideas will continue to develop and eventually affect human care as well. The application of artificial intelligence has the potential to solve many current issues, but it will also inevitably give rise to new ones. The breadth of the effort will expand thanks to AI's machine learning capabilities, which will also improve the work's transparency and quality. This could eventually lead to a situation in which the machine is no longer dependent on humans for assistance or instructions because it will have data to help it decide what to do next.¹

Definition of Artificial Intelligence as per Oxford Dictionary “the theory and the process of development of computer systems which makes them able to perform tasks which normally requires human intelligence, like visual perception, speech recognition, decision-making and translation between languages. Artificial intelligence (AI) is that branch of computer engineering which is designed to create machines that behave like humans or is

¹ Ruth L. Okediji, Creative Markets and Copyright in the Fourth Industrial Era: Reconfiguring the Public Benefit for a Digital Trade Economy, 43, ICTSD's Programme on Innovation and Intellectual Property, 01(2018).

a machine that behaves like one. Although AI has come so far in recent years, but it still misses essential pieces of human behavior such as emotional behavior, attachment with other beings, identifying objects and handling them smoothly like a human.”²

Artificial Intelligence is also defined as “A branch of computer science called artificial intelligence (AI), also referred to as machine intelligence, focuses on creating and controlling machinery that can learn to make decisions and take actions independently on behalf of a human.”

In 2004, John McCarthy gives the following definition of artificial intelligence (AI), despite the fact that there have been numerous other definitions over the past few decades, “It is the science and engineering of making intelligent machines, especially intelligent computer programs. It is related to the similar task of using computers to understand human intelligence, but AI does not have to confine itself to methods that are biologically observable.”³

A I in Legal Sector

Artificial Intelligence in the legal arena can be anticipated or can be imagined in the way such technology is used. It can be used as tool, a process or an equipment for learning the working of another machine, processing of natural language, speech recognition, advancement of robotics in legal field, understanding a natural image in a planned way, an expert system can be formulated with rules-based technology, legal reasoning programming, artificial vision to judicial system, a combination of all these features in relation to legal issues. The very concept of AI captured enormous attention as it possesses the ability to deal with large amount of data in short time span; also results displayed by AI are more precise which is required in the field of legal practice. On the face of it, it is evident that manual processing of work in such overloaded industry consumes tremendous amount of time and involves a large amount of money which makes the clients unhappy too and they resist themselves to come forward with their complains.

Nowadays, many AI applications are used as a common day technology in the legal profession such as document data input, legal research methodology, software that can perform the typical daily tasks of the lawyers as a matter routine, logical reasoning and analysis of data etc. On the basis of such usage, it can be analyzed that the mission of this new technology is to methodize the laborious tasks of legal professions which they faces on a daily basis. Such methodization can lead to more efficiency and increase in the working capacity at each working day.

According to Forbes “once a certain type of document is denoted as relevant, machine learning algorithms can get to work to find other documents that are similarly relevant. Machines are much faster at sorting through documents than humans and can produce output and results that can be statistically validated. They can help reduce the load on the human workforce by forwarding on only documents that are questionable rather than requiring humans to review all documents. It’s important that legal research is done in a timely and comprehensive manner, even though it’s monotonous. AI systems such as the one offered by Ross Intelligence leverages natural language processing to help analyze documents.”⁴

“Therefore, Artificial Intelligence has the potential to immensely modify the manner that human interacts not only with other human beings but with every other thing and not solely with the digital world but also with one another, through their work and through other socioeconomic institutions, for better or for worse.”⁵

CURRENT APPLICATION OF AI AND SIGNIFICANCE OF ARTIFICIAL INTELLIGENCE IN INDIAN LEGAL FRAMEWORK

AI is increasingly being used in various sectors, including the legal sector. In the Indian legal framework, AI has the potential to bring about significant changes, including improving access to justice, increasing efficiency, and

²<https://www.lexology.com/library/detail>

³ <https://www-formal.stanford.edu/jmc/whatisai.pdf>

⁴<https://www.forbes.com/sites/bernardmarr/2018/05/23/how-ai-and-machine-learning-are-transforming-law-firms-and-the-legal-sector>

⁵www.legalserviceindia.com/legal/article-631-impact-of-artificial-intelligence-on-indian-legal-system.html

reducing costs. One of the significant applications of AI in the Indian legal framework is in legal research. With the help of AI-powered tools, legal professionals can now conduct searches and access legal databases in a faster and more accurate manner. This has greatly improved the efficiency of legal research, saving time and effort for lawyers and judges.

Another area where AI is being used in the Indian legal system is in the review and analysis of legal documents. AI-powered tools can analyze large volumes of legal documents and extract relevant information. This can help lawyers in drafting legal documents, reviewing contracts, and identifying potential risks. AI can also be used to improve the efficiency of the judicial system. By analyzing case data and identifying patterns, AI can help judges in predicting case outcomes and reducing the backlog of cases. One of the significant benefits of AI in the Indian legal framework is that it can improve access to justice. By automating routine tasks, AI can help lawyers and judges focus on more complex tasks, leading to faster and more efficient delivery of justice. However, there are also concerns about the use of AI in the legal system. One of the concerns is that AI may be biased and discriminatory, leading to unjust outcomes. Therefore, it is crucial to ensure that AI is designed and used in a transparent and accountable manner.

Overall, AI has the potential to bring about significant improvements in the Indian legal framework, and it is essential to leverage this technology to improve access to justice and the efficiency of the judicial system.

Litigators of the developed country in their profession have been utilizing most advanced technology of artificial intelligence for almost 10 years. There are already more than 30 legal applications of AI in use in this sector, all of which need to be succinctly and precisely categorized. According to Edgar Alan Rayo's appraisal of the company's legal AI solutions, there are six main categories in which current uses of AI appear to fall.

- **Due Care** – Due diligence is one of the most important aspects of a litigator's job, and using artificial intelligence (AI) tools, they may easily find the necessary information to better serve their client.
- **Prediction technology** – An AI Programme efficiently produces outcomes in a way that predicts the outcome of legal proceedings. In the event that the desired result is not obtained, these outcomes or results assist litigators in preparing themselves for alternative resolutions.
- **Document automation** – Based on the precise data input, law firms utilize specific software templates to produce more appropriate filled-out documents. Additionally, it results in a more desirable comprehension structure.
- **Intellectual property** – As big IP portfolios continue to develop on a significant level, AI solutions assist lawyers in studying them and aid them in deriving insights from the information.
- **Electronic billing** – Lawyers' working hours are computed automatically in order to restrict delay in the salaries. This creates an enthusiasm among legal professionals to get work done precisely.⁶

Artificial intelligence, which is being used on a small but very effective scale in a variety of industries, including robotics, entertainment, mobile phones, and other fields, has already set an example for the changing era by fundamentally altering the nature of those industries, areas, and fields. However, the Indian judicial system and its participants continue to feel secure in relying on strategies and tactics that were primarily developed on the old approach many years ago. Adopting a small amount of technological innovation can play a significant role in altering the established trends in India's legal sector and offering the populace new perspectives. Given that the Indian legal system is constantly evolving and that the introduction of artificial intelligence (AI) will likely have a significant impact on it, it is conceivable that some disruptions in the field of legal research will result. This is especially true given how broad the legal field is in India. A lawyer or law firm's capacity to turn a profit is now compromised by the fact that conducting legal research takes a substantial amount of time. Artificial intelligence can offer a fully balanced platform to conduct legal study in this circumstance. Since everyone, whether they work for a law firm with 500 attorneys, a solo practitioner, a student, or an academician, will receive the same level of research, everyone will benefit from this.

According to the statistics, Cyril Amarchand Mangaldas was the first law firm to enter into a contract with Kira Systems, a Canadian provider of machine learning software, in 2017. This partnership serves to increase the firm's process for providing legal services' efficiency, accuracy, and speed.⁷

⁶ [https://emerj.com/ai-sector-overviews/ai-in-law-legal-practice-current-applications-Nov 21, 2019](https://emerj.com/ai-sector-overviews/ai-in-law-legal-practice-current-applications-Nov-21,2019)

IMPACT OF AI IN THE FUTURE ON THE LEGAL PROFESSION

Legal industries are very vast and change itself with the changing needs of the society. Every legal framework of every nation is different from one another some are known to be good but some are neglected as well. There are discrepancies among legal professionals everywhere and even some of the experts in the field of AI and other technology field which are also somehow connected to the legal arena have fear about what could be the actual impact of the AI on the legal industry, if any. Some of the experts believe that the impacts will be positive and more beneficial to the legal industry but some believe that AI portrays more of negative impact in the legal industry.

There are people who show their concern regarding the impacts of AI on legal industry in near future, some of them are: -

"It would be equivalent to a lawyer in the late twentieth century still doing everything by hand when this person could use a computer," said Tom Girardi, a well-known civil litigator and the real-life model for the attorney in the film *Erin Brockovich*. There are numerous reasons to think AI could have a similar positive impact on the legal sector as the personal computer did.

Song Richardson thinks AI can help the legal industry, but she advises us to be cautious in how we use it. Even the best AI needs to be taught, thus its objectivity is limited by the people who instruct it. Richardson still thinks new technologies will have a good overall influence despite these worries. AI has the ability to dramatically improve the quality of information because lawyers and judges can only be as good as the information they are given.

However, Sergio David Becerra states in a Law Journal that "AI is not likely to replace lawyers in procedural areas of legal practise or in legal research. Instead, AI will be utilised to automate remedial duties, freeing up lawyers to concentrate on the more intricate and in-depth work of analysis."⁸

Accordingly, these various opinions amongst experts of AI and legal industries continue to rise as the use of artificial intelligence in the legal arena continues to develop on the daily basis.

According to my view, everything whether be it big or small has its own existence and that very thing has its own impact on the lives. The impact is positive or negative that completely depends upon how we take it and use it or how much we give importance to it. Similarly, artificial intelligence helps us in our daily routine, our professional jobs and in almost everything we do. Thus, we give it too much importance we may face negative consequence of such excessive usage, but if we figure out the balance between our work with respect of AI we can progress efficiently as well as help other people or clients more effectively.

IS ARTIFICIAL INTELLIGENCE A REPLACEMENT OF LAWYERS?

From the past few years, a question among the legal fraternity is burning. It is about whether the artificial intelligence in the legal industry will replace the lawyers, legal researchers, analysts etc. from the industry. As I already discussed above that AI provides us effective solutions and platforms would it will take the jobs of people of legal industry by increasing the efficiency and productivity of the legal field.

On the other hand, before the introduction of AI, the legal sector of different nations has already seen new solutions to the diverse problems through the technology available to them. Technology has helped in the improvement of productivity of lawyers, students, searching software, research software etc. However, to take away the jobs of the people has never been the target of the artificial intelligence in the legal industry but its motive was to increase authenticity, accuracy in the fields of research and dynamic solutions of the problems of the clients. As we all know that the legal profession is a profession of precision and reasons for decision, therefore, it is highly driven by analysis and the most important part of representation cannot be given in the

⁷<https://blog.iplayers.in/ai-in-legal-profession/>

⁸Sergio David Becerra, *The Rise of Artificial Intelligence in the Legal field: Where We Are and Where We are Going*, 11 J. Bus. Entrepreneurship & L. 27, 49 (2018).

hands of automated machine. Though these entire things can help us in saving time and speedy trial with speedy justice, artificial intelligence does not mean to take away the earnings of the people.

In the Indian Legal System, so many things are still developing and are looking forward to more effective and efficient ways to deliver justice speedily and effectively. Thus, Indian legal framework will welcome the AI based tools and software to achieve their desired goals.

Legal Challenges Related To AI

As AI becomes more prevalent in various sectors, including the legal sector, there are several legal challenges that need to be addressed. Some of the significant legal challenges related to AI are:

Liability: With the increasing use of AI-powered systems, questions around who is liable for errors or harm caused by AI arise. It is important to determine who is responsible when an AI system causes harm or fails to perform as intended.

Privacy and Data Protection: AI systems rely on vast amounts of data to function, and this data may contain sensitive personal information. Therefore, there is a need to ensure that AI systems comply with data protection laws and that the privacy of individuals is respected.

Discrimination and Bias: AI systems can be biased and discriminatory, leading to unfair outcomes. It is essential to ensure that AI systems are designed and trained in a way that is fair and unbiased.

Intellectual Property: The ownership and protection of intellectual property in AI-generated work are not clearly defined. It is necessary to establish a legal framework for protecting the intellectual property rights of AI-generated work.

Regulation: AI technologies are evolving rapidly, and the legal framework around AI needs to keep pace with these developments. There is a need for regulation that promotes innovation while ensuring that AI systems are safe, reliable, and trustworthy.

Ethical and Social Implications: As AI systems become more autonomous, questions around the ethical and social implications of AI arise. There is a need to ensure that AI is used in a way that is ethical and aligns with social values.

Overall, addressing these legal challenges related to AI is crucial to ensure that AI is developed and used in a way that is safe, fair, and trustworthy. It is essential to establish a legal framework that promotes innovation while protecting the rights and interests of individuals and society as a whole.

CONCLUSION

The arrival of artificial intelligence and advanced technological development in the legal industry has completely changed the framework upon which the legal industries used to work. It is not possible to extract the possibilities without which legal industry with the usage of AI software is possible which are evolving at a great number in the markets. Like many other industries, legal industry is also the consumer/client's centric industry, and in countries like India speedy justice is required, here, AI will be like legal solution just one click away. It will help in achieving desired goals. Also, AI will help in proper documentation of vast cases and effective and elaborated research.

There are negative impacts as well where the capability of using this highly advanced technology specifically in legal arena has made a poised effect on the usage of simple keywords and working tools. Though it delivers

everything fast and in a better way but it somewhere lacks the consciousness of a human mind. Also, installation of such advanced technology costs a lot which is its drawback.

Therefore, this paper discusses about the current applications of artificial intelligence in legal industry, its future implications and impact of AI on Indian legal system, classification of areas in the manner AI is used etc. which helps researcher in reaching the final conclusion.

At last, researcher key finding is that the technological advancement may help lawyers, judges, law students and other law professional in doing their job efficiently and quickly, but it will never be able to replace their instinct.

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