

# ROLE OF ARTIFICIAL INTELLIGENCE IN TRANSFORMING THE LEGAL PROFESSION IN INDIA WITH SPECIAL REFERENCE TO ADR

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## • ABSTRACT

Artificial intelligence (AI) is transforming numerous sectors by reshaping traditional methods of task execution. This wave of technological innovation is not exclusive to the legal profession. Although AI is not yet capable of replacing human advocates, it is already revolutionizing legal practice. This article examines the advantages, challenges, and potential implications of artificial intelligence for the legal profession, with special emphasis on Alternative Dispute Resolution (ADR).

A balanced perspective suggests that while AI may make certain legal tasks—such as transactions, litigation, ADR processes, and legal advice—more efficient, it will not completely replace human lawyers. Instead, AI enhances legal capabilities by streamlining processes and increasing the value of uniquely human skills such as reasoning, negotiation, and empathy. This article explores why and how AI will assist, rather than replace, legal professionals, particularly in the ADR domain. The term “AI” is used broadly to include expert systems, rule-based programming, and machine learning technologies. AI applications in document review, legal research, contract analysis, e-billing, and drafting are analyzed, along with challenges such as data privacy, document forgery, and lack of technical expertise. As awareness of AI grows, new concepts of AI-assisted litigation and ADR are expected to emerge within the legal profession.

**Keywords:** Artificial Intelligence, ADR, Legal Profession, Digital Litigation, Information Technology, E-Courts.

## 1. Introduction

Technology has become a decisive factor in determining how legal services are delivered, how competition is structured, and what clients expect in an increasingly globalized world. Some of the most significant developments have been driven by artificial intelligence (AI), which enables lawyers to conduct legal research, advice clients, and interact with them in new and

innovative ways. Although AI is not yet capable of replacing human advocates, it is undeniably reshaping the legal profession.

This article examines the advantages, challenges, and implications of AI for the legal profession, particularly in the field of Alternative Dispute Resolution. A balanced approach recognizes that while AI can make tasks such as litigation, transactions, and legal advisory services more efficient, it cannot replace human judgment. Rather, AI enhances lawyers' capabilities by improving efficiency and emphasizing uniquely human skills such as creativity, empathy, and strategic thinking.

In the context of ADR, AI has the potential to streamline dispute resolution processes and improve access to justice. The term "AI" is used broadly to include expert systems based on rule-based logic as well as machine learning models that improve through data analysis. As AI adoption grows, legal professionals must be capable not only of using these technologies but also of supervising and critically evaluating them.

## **2. Statement Of The Problem**

Artificial intelligence is being used across various professions, including medicine and engineering. The legal profession has also adopted AI and computer-based tools for drafting and case analysis. However, the use of AI in ADR is a relatively new development. Several challenges exist in the implementation of AI tools in ADR proceedings, including regulatory gaps and technical limitations. The current legal framework lacks effective mechanisms for implementation and regulation. This paper examines the challenges associated with the use of AI in ADR mechanisms.

## **3. Objectives**

- To examine existing legislation governing the use of AI in ADR
- To assess the effectiveness of AI in the disposal of ADR matters
- To analyze the challenges faced by legal professionals in implementing AI in ADR

## **4. Research Gap**

Previous studies primarily focus on the use of AI in general legal practice, with limited emphasis on its role in ADR mechanisms. There is a need for focused research on AI's application in ADR and the emerging challenges associated with its use. This study seeks to fill this gap by analysing AI specifically within the ADR framework.

## **5. Research Questions**

- What is the role of artificial intelligence in ADR?
- What legislation governs the regulation of AI in ADR?

- What are the benefits of AI in the legal profession?
- What challenges arise in implementing AI in ADR mechanisms?

## **6. Research Hypothesis**

- The use of AI in ADR leads to faster and more efficient dispute resolution.
- AI can reduce bias and promote fairness in ADR processes.
- There are insufficient regulatory guidelines governing the use of AI in the legal profession.

## **7. Research Methodology**

This research adopts a doctrinal method. Secondary sources such as journals, research papers, books, articles, and judicial decisions of the High Courts and Supreme Court of India have been analyzed. Based on these sources, the researcher has examined the issues and drawn conclusions.

## **8. Significance Of The Study**

This study provides a comprehensive analysis of AI's role in the legal profession, particularly in ADR proceedings. It discusses various AI tools and methods, their benefits, and the challenges associated with their implementation, offering valuable insights for legal practitioners and policymakers.

## **9. Limitations Of The Study**

The research relies solely on secondary data. Due to time constraints, limited sources were analysed. The study could be strengthened by incorporating primary empirical data.

## **History Of The Use Of Artificial Intelligence**

The term “artificial intelligence,” coined in the 1950s, refers to technologies that enable computers to perform tasks typically associated with human intelligence. Early developments include Christopher Strachey's checkers program (1951) and Arthur Samuel's learning-based checkers program (1952), which laid the foundation for modern AI systems.

## **Role Of Artificial Intelligence In Developing The Legal Profession Globally**

Artificial intelligence plays a crucial role in legal research, e-discovery, predictive analysis, administrative support, and cyber security. Tools such as IBM's Watson, ROSS Intelligence, Kira Systems, and Open Text Accelerate are widely used in contract review, legal research, and ADR processes. Global regulatory efforts, including the EU AI Act, Canada's Digital Charter Implementation Act, and Brazil's AI framework, demonstrate increasing international commitment to ethical AI governance.

## **Use Of Artificial Intelligence In ADR: The Indian Perspective**

India's legal system has gradually embraced technology through e-filing, virtual hearings, and digital databases. Although India lacks AI-specific legislation, frameworks such as the Information Technology Act, 2000, NITI Aayog's Responsible AI principles, and judicial initiatives like live-streaming of proceedings highlight progress. Supreme Court initiatives such as SUPACE, SUVAS, and SCI-Interact further reflect AI integration into judicial administration.

## **Applications Of Ai In ADR And Legal Practice**

- Document review and predictive coding
- Contract analysis and due diligence
- Legal research and precedent analysis
- Electronic billing and automation
- Digital documentation and communication
- Digital signatures and enforcement
- Predictive analytics for legal outcomes
- Automated drafting and pleadings

## **Benefits Of Ai In The Indian Legal Sector**

AI enhances efficiency, reduces human error, improves legal research, supports decision-making, and enables lawyers to focus on complex and strategic tasks. In ADR, AI facilitates faster dispute resolution and informed settlement strategies.

## **Challenges In Implementing Ai In India**

- High cost of AI systems
- Lack of technological infrastructure
- Limited data availability
- Privacy and data security concerns
- Resistance from legal professionals
- Ethical concerns relating to accountability and transparency

## **Current And Future Perspectives Of Ai In Legal Sector And ADR**

Digital litigation and e-courts represent the future of the legal system. International cooperation, regulatory frameworks, and judicial innovation signal increasing reliance on AI. In India, initiatives such as SUPACE, SUVAS, and AI-based translation and research tools indicate growing adoption.

## 10. Conclusion

Artificial intelligence has significantly impacted the legal profession and ADR by enhancing efficiency, reducing uncertainty, and improving access to justice. While AI cannot replace lawyers, it serves as a powerful tool that augments legal expertise. Human skills such as empathy, creativity, and strategic judgment remain irreplaceable. However, the absence of a comprehensive regulatory framework poses risks related to data security and ethical use. To fully realize AI's benefits, India must develop robust legal mechanisms that regulate AI use while safeguarding justice and professional integrity.

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