



The Indian Journal for Research in Law and Management
Open Access Law Journal – Copyright © 2025
Editor-in-Chief – Dr. Muktai Deb Chavan; Publisher – Alden Vas;
ISSN: 2583-9896

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Future of Technology in Legal System

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Introduction

In an increasingly digital world, the legal profession, long anchored in traditional and procedural formalism, is being propelled toward an era of technological transformation. India's legal system—one of the largest and most overburdened in the world—now stands at the threshold of this paradigm shift. With the exponential rise of artificial intelligence, blockchain, machine learning and Online Dispute Resolution (ODR), legal technology offers unprecedented potential to streamline judicial processes, reduce case backlogs, enhance access to justice, and democratize legal information. Yet, as the courts, counsel and citizens begin to adapt to this revolution digital jurisprudence, a critical question arises: the Law will eventually embrace technology—but will it do so in manner that harasses its transformative benefits while safeguarding against the perils of algorithmic opacity, data surveillance, and dehumanized adjudication?

This inquiry is not merely theoretical; it lies at the very heart of the Indian Legal system's constitutional mandates. Legal technology in India must serve the end of justice, not efficiency alone. It must remain anchored in the principles of due process, accountability, and human dignity, while advancing innovation in service of procedural equity and institutional reforms.

Historical Context and Present Structure

Historically, the Indian legal system has remained resistant to technological integration due to procedural rigidity, dependency on physical records, and a conservative approach to legal reforms.

Present Technology Initiatives

- **E-Courts Mission Mode Project (since 2005):** Digitalisation of district and subordinate courts.
- **National Judicial Data Grid (NJDG):** Real-time data repository of case statistic.
- **Virtual Courts:** Especially boosted during the Covid-19 pandemic.
- **SUPACE (Supreme Court Portal for Assistance in Court Efficiency):** India's first AI-based judicial tool.
- **E-filing and E-payment System:** Streamlining litigation access.

Need for Legal Technology in India

1.Reducing Judicial Backlog with Digital Case Management

Ground Reality: As of 2025, over 4.5 crore cases are pending in Indian courts. India has a low-to-population ratio (approx. 21 per million). Automating parts of judicial workflow helps overcome this shortage.

Practical Application: AI- driven case triaging and priority listing can help dispose of minor or repetitive cases faster. Predictive analytics can assist judges in faster decision-, making based on precedent patterns.

2.Bridging the Urban-Rural Divide

Ground Reality- 70% of India's population resides in rural areas, with limited access to courts and lawyers. The Digital India Mission and BharatNet project provide a unique opportunity to make justice mobile, affordable and multilingual.

Practical Application: Legal Chatbots and ODR platforms can bring basic legal services to rural users via smartphones. Mobile-based legal apps in vernacular languages can democratize legal literacy and access.

3.Empowering Marginalized Litigation

Ground Reality: Women, the disabled, LGBTQ+ individuals, and migrant workers often hesitate to access courts due to social stigma or procedural complexities. The Indian legal system is often seen as intimidating. Technology can create safe digital spaces for marginalized voices.

Practical Application: ODR allows them to resolve disputes discreetly. Speech-to-text & AI translation tools enable better access for the visually impaired or illiterate.

4.AI in Judicial Decision Support

Ground Reality: Judges are often overburdened, especially in trial courts. This is particularly helpful in environmental, tax, and commercial litigation where data is voluminous.

Practical Application: Tools like SUPACE provide intelligent briefs and help judges focus on the application of law rather than information gathering.

5.Reforming Legal Education and Skill Building

Ground Reality: Law curricula in many Indian colleges lack modules on technology, coding, or AI ethics. Prepare the next generation of lawyers for a tech-integrated legal world and global competitiveness.

Practical Application: Legal tech courses, coding for lawyers, and AI ethics modules need to be part of the Bar Council-approved LL.B curriculum. Virtual moot courts and AI-based mock litigation platforms.

Famous Quotes

- “Technology should be used as an instrument to uphold constitutional values, not replace them”- **Justice D.Y. Chandrachud**

- “Law will catch up with technology, but the key question is: can it do so without losing its soul”? -**Lord Thomas of Cwmgiedd**
- “Artificial intelligence is not here to replace judges, but to assist them in making justice more accessible and efficient”- **Justice S.A. Bobde, former CJI**

In My Opinion

If you are a lawyer and wondering how AI is going to change your life- Will clients no longer need your services, or will they negotiate even harder & demand cheaper prices? Will your job eventually be taken over by AI? The answer is no, because AI can not replace the lawyer, judge or court; it merely facilitates them. However, if you decide to learn how to use AI and understand how to use it well, you will become absolutely irreplaceable. A human who can use AI effectively can produce extremely high-quality work-very productively, very efficiently and almost like a magic.

In today's world, the focus will shift to your quality of thinking as a lawyer. If you can think better, you will have a better judgement call on what would be the preferable for your client. If you understand psychology better, you can give better prompts to AI and achieved better results.

So, we not only need to build the technology of the future of law, but also train people on how to use it with responsibility-ultimately moving towards a vision of computational justice, where we enable justice for everyone, not just treat it as a luxury product.

Benefits of Legal Technology and AI for Judges

In the contemporary Indian judiciary, many judges occupying positions in SC and HC hail from a pre-digital era. Consequently, they often face challenges in comprehending the nuances of modern technology, its applications, challenges, and broader implications. AI can play a transformative role in bridging this technological divide by equipping judges with up-to-date, multidimensional insights necessary for sound judicial decision-making.

Key Benefits

- Bridging the generational and technological gap between traditional judicial approaches and modern legal challenges.
- Assisting judges in rendering fair, equitable, and well-reasoned judgements grounded in contemporary realities.
- Creating opportunities for judges to enhance their understanding of emerging legal and technological scenarios.
- Minimizing the margin of error in complex decision-making process.
- Establishing an inclusive platform that allows individuals from all social strata-irrespective of caste, religion, language, or socio-economic status-to present their concerns, with AI enabling objective, unbiased access to justice.
- Harmonizing the perspective of the bench and bar by integrating traditional legal values with a modern, technology-informed worldview.

By embracing these advancements thoughtfully, the judiciary can ensure that justice is not only done but is seen to be done -efficiently, transparently, and in tune with the needs of the present and future.

Lawyers and Advocates

- Assist in the drafting of legal documents, pleadings, and summons, thereby supporting both newcomers and senior advocates in refining their skills.
- Facilitate the analysis of facts and circumstances pertinent to legal matters.
- Aid in identifying relevant judicial precedents.
- Support comparative legal research and analysis.
- Minimize the likelihood of human error in legal work.
- Emphasize the application and interpretation of law over the mere presentation of factual narratives.
- Provide access to juristic opinions, legal maxims, scholarly thoughts, and other jurisprudential tools aligned with the requirements of a particular case.

Parties (litigants)

- Enable parties to present stronger arguments from their own perspective.
- Empower individuals to acquire legal knowledge in a language they comprehend.
- Help protect against potential fraud or misrepresentation.

Challenges

- Lack of digital literacy
- Inadequate infrastructure
- Privacy and data protection issue
- Absence of regulation
- Ethical dilemmas

Conclusion

The future of legal technology in India lies in making justice smarter, faster, and more inclusive. By, integrating AI, digital tools, and localised innovations into the legal ecosystem, India can overcome deep-rooted challenges like case backlogs, access barriers, and procedural delays. However, success will depend on balanced implementation-where technology empowers, not replaces, the human essence of justice.