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New Delhi

First Floor, 4598/12-B, 1st Floor,
Padam Chand Marg, Daryaganj,
New Delhi, Delhi 110002

Phone: +91 98 11 66 62 16 (M)

Phone: +91 70 11 60 56 18 (M)

Bengaluru

Jallahalli East

Bengaluru, Karnataka. India.

Phone: +91 98 11 66 62 16 (M)

Email: publisher.integrity@gmail.com

USA

New Jersey

14 Grandview Ave, Upper Saddle River,
NJ-07458, USA

Phone: +14805226504 (M)

London

37 Degree Media

64, Hodder Drive, Perivale, London UB68LL.
United Kingdom.

Phone: +44 7950 78 18 17 (M)

Website: integrityeducation.co.in

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Reimagining Arbitration: The Integration of Artificial Intelligence in Dispute Resolution Systems

Author
Ananye Rajpal



Reimagining Arbitration: The Integration of Artificial Intelligence in Dispute Resolution Systems

Ananye Rajpal
Amity law school,
Amity University Noida U.P

Abstract

The rapid advancement of artificial intelligence (AI) is reshaping traditional legal processes, with arbitration emerging as a key domain for technological integration. This paper explores the transformative role of AI in dispute resolution systems, particularly focusing on how it redefines the structure, efficiency, and decision-making processes within arbitration. By examining the incorporation of AI-driven tools such as predictive analytics, natural language processing, and automated case management systems, the study evaluates their potential to enhance procedural efficiency, reduce costs, and improve consistency in arbitral outcomes.

However, the integration of AI into arbitration also raises significant legal, ethical, and constitutional concerns. Issues relating to algorithmic bias, lack of transparency, data privacy, and the erosion of party autonomy challenge the foundational principles of arbitration. The study critically analyses whether AI-assisted arbitration can maintain the standards of fairness, neutrality, and due process, which are essential to the legitimacy of dispute resolution mechanisms. It further examines the compatibility of AI with established legal doctrines, including natural justice and the right to a fair hearing.

Adopting a doctrinal and analytical methodology, the research draws upon comparative perspectives from jurisdictions actively experimenting with AI in arbitration, alongside international arbitration frameworks and emerging regulatory responses. The paper argues that while AI holds immense potential to modernize arbitration, its unregulated or excessive use may undermine core legal values. Accordingly, it advocates for a balanced regulatory framework that ensures accountability, transparency, and human oversight in AI-assisted arbitration processes.

The study concludes by proposing policy recommendations aimed at harmonizing technological innovation with legal safeguards, thereby reimagining arbitration as a hybrid model that combines the efficiency of AI with the judgment and discretion of human arbitrators.

Keywords: *Artificial Intelligence; Arbitration; Dispute Resolution; AI in Law; Predictive Analytics; Algorithmic Decision-Making; Natural Justice; Due Process; Party Autonomy; Digital Justice; Legal Technology; Arbitration Reform.*

Artificial Intelligence in Law and Dispute Resolution

Introduction

Artificial Intelligence (AI) is transforming the way legal work is conducted in India by enabling faster, more accurate, and easier access to legal services. Many Indian law firms now utilise AI tools to prepare legal documents, research cases, review contracts, manage clients, and provide legal advice. These tools help lawyers save time on routine work, allowing them to concentrate on more complex legal issues. As a result, AI is helping the legal profession become more efficient and effective in serving clients.

Automation of Routine Legal Tasks in Indian Law Firms

AI-powered tools are revolutionising how Indian law firms handle routine tasks such as:

- Legal Research and Case Law Analysis – AI-based research platforms, such as SCC Online, Manupatra, and Casemine, assist in precedent-based legal analysis, saving hours of manual work.
- Document Review and Contract Management – AI-driven contract review tools, such as SpotDraft and MikeLegal, help lawyers analyse legal documents, detect risks, and ensure compliance.
- Litigation Management – AI-driven case management software helps track case updates, schedule hearings, and manage legal deadlines. The Supreme Court of India's SUPACE (2021) AI initiative exemplifies the use of AI in case management.

Examples of AI-driven Legal Automation in India

- Manupatra – Manupatra is a pioneering online legal research platform in India that leverages Artificial Intelligence (AI), Machine Learning (ML), and Natural Language Processing (NLP) to enhance the efficiency and accuracy of legal research. It provides comprehensive access to Indian and international case law, statutes, regulations, and legal commentary, serving as an indispensable resource for legal professionals.¹
- MikeLegal – AI contract management tool that assists firms in reviewing and managing legal documents efficiently. It is an AI-powered legal technology platform offering tools like Mike DocReview, which helps lawyers proofread contracts by identifying errors and inconsistencies. MikeLegal has introduced MikeLitigator, a litigation management system that automates case tracking and task delegation, enhancing efficiency for legal professionals.²
- CaseMine – AI-powered case law analytics platform Indian lawyers use for precedent-based legal analysis. It is an advanced legal research platform that leverages artificial intelligence to enhance the breadth and depth of legal research.

¹ <https://www.manupatrafast.com/>

² <https://www.captterra.in/software/1014706/mike-docusieve>

It offers AI-driven search, case law visualisation, and legal citation analysis, with its standout feature being AMICUS, a GPT-powered AI assistant.³

- Legistify – AI-driven legal operations platform that assists in compliance management, contract automation, and dispute resolution. It is an AI-driven legal operations platform that assists in compliance management, contract automation, and dispute resolution. It offers an all-encompassing platform for enterprise-level matter management, IPR tracking, notices, and contracts, aiming to simplify legal processes for businesses.⁴

. Benefits of AI Automation in Indian Law Firms

AI automation offers numerous benefits to Indian law firms by streamlining routine legal tasks, such as document review, contract analysis, case research, and compliance tracking. This increases efficiency, reduces turnaround times, and minimises human errors. By automating repetitive processes, lawyers can dedicate more time to complex legal reasoning, client interaction, and strategic decision-making. AI tools also aid in predictive analytics and risk assessment, ultimately supporting more effective legal outcomes. Ultimately, AI integration enhances productivity, improves access to justice, and enables law firms to deliver faster and more accurate legal services.

The following are the benefits.

- Time Efficiency – AI reduces legal research time from hours to minutes, improving productivity.
- Cost Reduction – Law firms reduce operational costs by minimising manual legal work.
- Accuracy – AI tools improve error detection in legal contracts and case laws.
- Challenges in AI Adoption in Indian Legal Practice
- High Implementation Costs – AI integration requires significant investment, which small law firms may struggle to afford.
- Data Privacy Concerns – AI tools handling sensitive legal data must comply with India's Data Protection of Personal Data Act, 2023.
- Limited AI Awareness – Many law firms lack expertise in AI adoption and require specialised training.

3.2.2. AI in Client Management and Billing Systems

AI significantly transforms client management and billing systems in Indian law firms by enhancing efficiency, accuracy, and client satisfaction. Platforms like Latch47 offer AI-powered automation tools that streamline case management, document handling, time tracking, billing, and client communication, thereby saving valuable time and resources for legal practitioners. Similarly, Smart

³ <https://dreamlegal.in/product/casemine>

⁴ <https://legistify.com/>

Lawyer Office48 integrates AI to provide seamless case management, document automation, timekeeping, billing, and client communication, redefining efficiency in legal practice. Tools like Billables AI automate legal time-tracking for billing accuracy, ensuring that billable hours are managed automatically and accurately while professionals work. Additionally, BillerAssist49 employs AI to review bills over five times faster, automatically flag potential errors at the point of entry, and provide innovative suggestions for billing descriptions based on prior entries, thus reducing pre-bill review time and maximising revenue. These AI-driven solutions enhance operational efficiency and improve law firms' client interactions and financial management.

AI-Powered Client Relationship Management (CRM)

AI-driven CRM software helps law firms in:

- Automating Client Communication – AI chatbots and virtual assistants provide real-time updates on case proceedings.
- Personalised Legal Advisory – AI predicts client needs based on historical data and legal trends.
- Streamlining Case Updates – AI tools notify clients about upcoming hearings, court rulings, and key developments in their cases, simplifying the process.

Indian Examples

- Legalkart – AI-based legal case tracking and client communication platform in India.
- SpotDraft – AI tool that enables automated contract drafting and client advisory services.

AI in Legal Billing and Fee Management

AI-powered billing systems assist Indian law firms in:

- Automated Time Tracking – AI tracks lawyer work hours and generates accurate invoices.
- Predictive Pricing Models – AI helps law firms estimate client legal service costs based on case complexity.
- Fraud Detection – AI detects inconsistencies in legal billing and expenses to prevent overcharging.
- Examples of AI-Powered Legal Billing in India
- PracticeLeague – AI-driven legal billing software for Indian law firms.
- LawRato – AI-enabled online legal consultation and fee estimation platform.

3.2.3 AI-Powered Virtual Legal Assistants

Virtual Legal Assistants (VLAs) are AI-powered tools, including chatbots and voice-based systems, that support lawyers, clients, and law firms by automating routine legal tasks and enhancing case management. These assistants can handle

client inquiries, schedule appointments, manage documents, and provide preliminary legal information, improving efficiency and accessibility in legal services. For instance, platforms like NyayGuru⁵⁰ offer AI-driven legal advice tailored to Indian laws, assisting users with common legal queries. Similarly, ROSS Intelligence⁵¹ utilises natural language processing to perform advanced legal research, answering legal questions and providing insights into case law and statutes. These technologies streamline legal processes, making legal assistance more accessible to a broader audience.

Role of AI Virtual Legal Assistants in India

- Automated Legal Consultation – AI chatbots answer common legal queries, reducing the burden on human lawyers.
- Legal Document Drafting – AI tools assist in drafting legal petitions, contracts, and affidavits.
- Case Status Tracking – VLAs provide real-time updates on case progress, court judgments, and hearing schedules.

Examples of AI Legal Assistants in India

- Haptik Legal AI Bot – Assists Indian legal professionals in automated client interactions.
- JusPredict – AI-powered case outcome prediction and legal research tool.
- VakilSearch AI – Provides AI-powered legal documentation and compliance support.

Advantages of AI-Powered Virtual Legal Assistants

- Availability – Clients receive legal assistance at any time/24/7.
- Reduced Workload – Lawyers can focus on critical cases while AI handles repetitive tasks.
- Cost-Effective – AI legal assistants offer affordable legal assistance, enhancing legal accessibility.

Challenges and Ethical Concerns

- AI's Limited Understanding of Legal Nuances – AI lacks the human intuition and contextual judgment that are essential for practical legal analysis.
- Data Privacy Risks – Legal chatbots must comply with Indian data protection laws.
- Bias in AI Algorithms – AI-based legal assistants must ensure fairness and non-discrimination.

AI is revolutionising Indian law firms by automating legal research, case management, client communication, and billing systems. While AI-powered legal assistants enhance accessibility and efficiency, challenges such as cost barriers, ethical concerns, and regulatory compliance must be addressed. As AI adoption continues to grow, Indian law firms must integrate responsible AI practices to ensure transparency and fairness in their legal processes.

AI's Transformative Potential in the Judicial Sector

As AI systems evolve, their potential to streamline courtroom procedures becomes more apparent. In its assistive role, AI can contribute to a wide range of courtroom and pre-trial tasks,⁵ including drafting judgments, intelligent case routing, transcription and translation of legal documents, anonymisation of judgments, and integration with national eGovernment systems for the verification of documentary evidence. Particularly notable is AI's potential in managing repetitive, low-value claims through online dispute resolution (ODR) platforms⁶—a development that can reduce case backlog without excluding legal recourse.⁷ Moreover, AI can assist judges in technical domains, such as the calculation of financial penalties, the evaluation and distribution of property in family disputes, and the identification of applicable statutes or precedents through efficient legal research algorithms. For example, natural language processing (NLP) models can be used to analyse the factual matrix of cases, and those can suggest relevant legal provisions with remarkable speed and precision.⁸ While these tools do not exercise discretion, they enhance the accuracy and consistency of judicial outputs, contributing to the predictability of legal decisions—an important component of legal certainty and the rule of law.

The breadth of AI applications in LegalTech is supported by recent data from the CEPEJ-AIAB, which reported that 125 AI and cyberjustice tools⁹ are currently in use or undergoing testing across various European jurisdictions. These tools, in turn, present distinct benefits and regulatory challenges. For instance, tools supporting document discovery and legal research undoubtedly enhance efficiency but can also amplify existing biases if not regularly audited. Similarly, ODR platforms improve accessibility but raise fairness concerns when human oversight is minimal. Moreover, AI-based predictive tools can support in organising and prioritising cases; however, their heavy reliance on previous datasets risks uniform adjudication, which can undermine individualised justice.¹⁰ In addition, decision-support systems that propose sentencing or summarise case facts should augment, not substitute, judicial reasoning; otherwise, they risk diminishing the role of human conscience in adjudication. At the same time, anonymisation tools help safeguard data privacy but can

⁵ Ignacio N Cofone, 'AI and Judicial Decision-Making' in Florian Martin-Bariteau and Teresa Scassa (eds), *Artificial Intelligence and the Law in Canada* (LexisNexis Canada 2021) ch 13, 8. 7 8 9. 10

⁶ Tania Sourdin, 'Judge v Robot? Artificial Intelligence and Judicial Decision-Making' (2018) 41(4) *UNSW Law Journal* 1114; Tania Sourdin and others, 'COVID-19, Technology and Family Dispute Resolution' (2020) 30(4) *Australasian Dispute Resolution Journal* 270.

⁷ Jessica Rosberger, 'AI Mediation for Reducing Court Congestion' (26 November 2024) *Cornell Journal of Law and Public Policy* accessed 21 March 2026.

⁸ Harry Surden, 'Artificial Intelligence and Law: An Overview of Recent Technological Changes in Large Language Models and Law' (2025) 96 *University of Colorado Law Review* 376. doi:10.2139/ssrn.5135305

⁹ CEPEJ, '1st AIAB Report on the Use of Artificial Intelligence (AI) in the Judiciary Based on the Information Contained in the Resource Centre on Cyberjustice and AI' (CEPEJ-AIAB(2024)4Rev5, 28 February 2025) accessed 21 March 2026.

¹⁰ Bhishm Khanna, *Predictive Justice: Using AI for Justice* (Centre for Public Policy Research 2021) 6.

inadvertently hinder transparency in legal scholarship and appellate review. Equally important, translation and transcription tools must be highly accurate, as even slight misinterpretations can lead to unfair outcomes. Nowadays, NLP models are also reshaping the broader landscape of legal practice. Various law firms already employ either customised or general generative artificial intelligence (GenAI) tools.¹¹ Between 2023 and 2024, these models became increasingly recognised for their ability to generate human-like text, making them valuable assets for tasks such as legal document drafting, contract analysis, and the provision of preliminary legal advice.¹² Additionally, the integration of GenAI has expanded the range of AI-supported functions in legal workflows, including summarising complex legal content, producing tailored documents, and facilitating interaction through question-answer systems. Open-source generative AI platforms, such as those evaluated by French institutions,¹³ are also contributing to increased transparency and usability by offering clearer insights into the architecture and governance of generative models. In the private legal sector, GenAI tools are already being explored for their potential to improve productivity and reduce routine workload. Although deployment within judicial institutions remains cautious due to higher ethical and procedural standards, the commercial legal sector has seen a growing interest in adopting these systems for case preparation, legal research, and client communication. As user involvement in system design and testing increases, generative AI is likely to become a practical instrument for enhancing the speed, efficiency, and accessibility of justice delivery. Although these tools are efficient and automate court procedures, this automation does not come at the cost of due process.

Ethical Guidelines for AI in the Justice System

Moving forward, it is important to consider the ethical standards guiding AI's integration into the judicial process. The European Ethical Charter on the use of AI in judicial systems, adopted in 2018, articulates five ethical principles to guide the responsible integration of AI, often referred to as LegalTech¹⁴ within judicial institutions.¹⁵ These principles, though not binding, have emerged as soft law instruments that have influenced both national legislation and court-level policy reforms across Europe.

¹¹ Jonathan Kewley and others, 'Fast Law: Why Speed is the Priority for Lawyers Using AI' (LexisNexis, 2024) accessed 21 March 2026.

¹² David Uriel Socol de la Osa and Nydia Remolina, 'Artificial Intelligence at the Bench: Legal and Ethical Challenges of Informing—or Misinforming—Judicial Decision-Making through Generative AI' (2024) 6 Data & Policy e59. doi:10.1017/dap.2024.53.

¹³ PEReN, 'Open Source GenAI Comparator' (Government of France, PEReN - Centre of Expertise for Digital Platform Regulation, 2025) accessed 21 March 2026

¹⁴ Z Seldağ Güneş Peschke and Lutz Peschke, 'Artificial Intelligence and the New Challenges for EU Legislation' (2022) 2 Yıldırım Beyazıt Hukuk Dergisi 1278. doi:10.33432/ybuhukuk.1104344.

¹⁵ CEPEJ, European Ethical Charter on the Use of Artificial Intelligence in Judicial Systems and Their Environment (Council of Europe 2018) accessed 21 March 2026.

As the integration of AI tools in the judicial process becomes more widespread, attention must be paid to their ethical governance. Although AI tools promise significant procedural benefits, their deployment must remain aligned with constitutional principles. As judicial reliance on algorithmic systems increases, legal systems must simultaneously reinforce mechanisms for auditability, human review, and accountability. While current AI systems cannot substitute for judicial conscience or legal reasoning, they can serve as valuable co-pilots by streamlining processes, improving institutional performance, and broadening access to legal remedies when governed ethically.¹⁶

AI technologies are being deployed in adjudication in various ways: as assistive tools supporting judges, procedural aids managing administrative or evidentiary processes, and, more controversially, in fully autonomous roles that aim to replace human judicial discretion altogether. While each of these applications raises legal and ethical questions, the risks intensify as AI moves from assistive to fully autonomous functions.¹⁷

Assistive AI in Judicial Decision-Making

Despite their potential, assistive AI systems show varied levels of prediction accuracy. While deep learning and large language model-based tools can achieve around 85–90% accuracy on benchmark datasets for tasks such as charge prediction and legal article recommendation, their performance drops to 70–80% in more complex tasks like sentencing and multi-label judgment prediction.¹⁸

At the same time, this integration of AI in court processes raises substantial human rights risks, particularly when individuals have no viable alternatives.¹⁹ Although the idea of AI assisting judges in sentencing, bail, or probation decisions offers greater efficiency in justice delivery, it can pose significant threats to the right to a fair trial,²⁰ due process, the right to an effective remedy, transparency, and protection against discrimination, while undermining the obligation of courts to provide reasoned judgments.²¹

¹⁶ Filippo Donati, 'The Use of Artificial Intelligence in Judicial Systems: Ethics and Efficiency' in Mireia Artigot i Golobardes and others (eds), *Artificial Intelligence, Judicial Decision-Making and Fundamental Rights* (2nd edn, Scuola Superiore della Magistratura 2024) 15.

¹⁷ UNESCO, *Draft Guidelines for the Use of AI Systems in Courts and Tribunals* (CI/DIT/2025/GL/01, May 2025) accessed 21 March 2026.

¹⁸ Chuyue Zhang and Yuchen Meng, 'Bridging the Divide: Technical Research and Application on Legal Judgment Prediction' [2025] *Artificial Intelligence and Law*. doi:10.1007/s10506-025-09473-7.

¹⁹ Recommendation CM/Rec(2020)1 of the Committee of Ministers to member States on the Human Rights Impacts of Algorithmic Systems (8 April 2020) Preamble, para 11 Accessed 21 March 2026.

²⁰ Charter of Fundamental Rights of the European Union [2012] OJ C 326/391, art 47.

²¹ Convention for the Protection of Human Rights and Fundamental Freedoms (4 November 1950) [1955] UNTS 213/222, arts 6, 13, 14 and 45

AI systems used as assistive risk assessment tools are only as fair as the data on which they are trained. When fed historical data embedded with structural biases, these systems are prone to replicating and even amplifying those injustices. The phenomenon of the “feedback loop” further exacerbates the discriminatory potential of AI-driven judicial systems. When sentencing algorithms are trained on biased historical data, they can disproportionately impose harsher penalties on certain demographic groups. As these biased precedents are continuously fed back into the system for retraining, they reinforce and perpetuate existing discriminatory patterns.

Unlike algorithms, human judges can identify and rectify errors, prevent the same mistakes from being repeated in future adjudications, and be held accountable for discriminatory practices. This danger is well illustrated in the case of *State of Kansas v. John Keith Walls* (2017), where the appellate court held that the defendant must be granted full access to the LSI-R (Level of Service Inventory-Revised) assessment, which the lower court had relied upon to determine the conditions of his probation. Denying the defendant access to this assessment prevented him from disputing the accuracy of information that played a critical role in the adjudication,²² thereby violating his constitutional right to procedural due process.

By citing the case *Kansas v. Easterling*, the court concluded that the district court’s refusal to provide the complete LSI-R report violated the defendant’s constitutional right to procedural due process during the sentencing stage of the criminal proceedings.²³ Such risks show how even assistive AI can compromise fairness when defendants cannot understand or contest algorithmic reasoning.

Working process of Artificial Intelligence (AI) in Alternative Disputes Resolution (ADR):

Artificial Intelligence (AI) can work in 2 ways:

- a) Artificial Intelligence (AI) can be a tool for the neutral AI can be the neutral itself in the first system – AI can help in examining documents, exploration, and standard drafting. Artificial Intelligence (AI) can also be used to make an estimation of the issues, evaluate damages, determine untruths, and propose probable results. Therefore, mortal decision-makers could consult the AI on an aiding base for simplified and speedy Alternative Dispute Resolution (ADR) proceedings.
- b) In the alternate system – Both parties can be asked to put forward their last, best offer, and the algorithm would look into its database and see which offer is closest to its model result. This would also prompt the parties to put rational

²² *State of Kansas v John Keith Walls* no 116027 [2017] Kan Ct App.

²³ *State of Kansas v David E Easterling* no 100,454 [2009] 213 P.3d 418 Kan Sup Ct

offers so that the Artificial Intelligence (AI) chooses their offer over that of the other party's. This design plays to algorithmic specialties and shuns subjective questions that might trip it.

Pros and Cons of Artificial Intelligence in Alternative Dispute Resolution:

Pros and cons of Artificial Intelligence (AI) in Alternate Dispute Resolution (ADR) are mentioned as follows:

Amplification of the Process:

The easiest way of using an AI would be at the first stage of the session. The machine may answer questions and address queries as to how the Alternate Dispute Resolution (ADR) process would do. A robotic machine can repeat analogous material multitudinous times without growing irascible as a human neutral might.

Time Effective:

One of the objectives of Alternative Dispute Resolution (ADR) is to save time in comparison to litigation. Still, attorneys are frequently burdened with no way – ending attestation and exploration work, which is to be finished in a veritably short time frame.

An Artificial Intelligence (AI) can organize data analysis and exploration and hence, lessen the burden on individuality.

Cost-Effective:

Although the primary setup would be huge, once the Artificial Intelligence (AI) becomes functional it would be a much cheaper choice than traditional human-based resolution.

Disclosing Sensitive Details:

Some people might be more content sharing their private information with a robot rather than a person. A robot cannot judge anyone which might make people open to that change.

Attestation:

Alternate Dispute Resolution (ADR) is a shorter process as compared to litigation, which makes AI particularly salutary in lowering the attestation workload. AI can help in quickly assessing and choosing the material documents, or for making summaries of the documents.

Drafting:

Judges spend a lot of time drafting standard sections of arbitration awards, similar to – the parties, procedural history, and the clause of arbitration, governing law, party's positions, and the cost of arbitration.

No scope for Bias:

The judgments given by an Artificial Intelligence (AI) system would not be affected by human sins such as partiality, unfairness, immoderation or just having a bad day or being tired. It also takes care of other human inclinations, similar to relying on the first piece of information entered or being told by the external surroundings or the other cases the arbitrator dealt with.

No Conflict of Interest:

Where robots are assigned rather than human judges, there would be no grounds for querying the judges on grounds of partiality or a conflict of interest.

No Scope for Errors:

There are chances that Human Arbitrators can make misdoings in understanding, translating, attestation, selection of authority, decision timber, etc. Using Artificial Intelligence (AI) at several stages or in different jobs can help in barring the shortages in the process of arbitration.

Replacing attorneys:

It's an intimidating outlook for legal professionals that the technology which was first developed to help them may one day deprive them of their jobs! There would only be a need for smaller people to make the Artificial Intelligence (AI) system functional and the employment rate of intercessors, and judges would drop.

Challenges and Ethical Considerations:

The use of Artificial Intelligence (AI) in Alternative Dispute Resolution (ADR) must be precisely managed to address these ethical firms. Ensuring the integrity of Artificial Intelligence (AI) algorithms is vital, as biased or defective algorithms could lead to illegal dispute resolutions. also, there's a need to maintain translucency in AI-driven opinions to build trust among the parties involved. Artificial Intelligence (AI) systems must be designed and operated with a focus on ethical principles and fairness.

Impact on ADR interpreters:

The rise of Artificial Intelligence (AI) in Alternative Dispute Resolution (ADR) also impacts the role of mediators, judges, and legal professionals. There's a growing need for these interpreters to understand and engage with Artificial Intelligence (AI) technologies. This doesn't lower the significance of human

judgment but rather complements it with data-driven perceptivity. Similarly, the skill set for Alternative Dispute Resolution (ADR) professionals is evolving, with an emphasis on technological proficiency alongside traditional concession and legal chops. Artificial Intelligence (AI) in Alternative Dispute Resolution (ADR) presents a future where dispute resolution is more effective, accessible, and indifferent.

Troubles associated with the use of AI in ADR:

Among the troubles of using Artificial Intelligence (AI) in Alternative Dispute Resolution (ADR) are the need for human judgment and the incapability of Artificial Intelligence (AI) algorithms to consider contextual factors and feelings in resolving controversies. Bias and demarcation are also significant concerns, as Artificial Intelligence (AI) systems can immortalize existing impulses and inequalities if not duly designed and covered. Also, the sensitive nature of the information involved in Alternative Dispute Resolution (ADR) processes can raise data protection and privacy enterprises.

No moral judgments:

The first manacle is embedded in the actuality of general clauses as part of the systems of law, grounded on moral principles social coexistence, good faith, the conception of abuse of rights, or, as in common law, the institution of estoppels. It seems that no machine is and will be suitable to analyze the moral stances of the parties to the proceedings, which in certain orders of cases is applicable from the perspective of assessing the fairness of the judgment. Taking the refereeing of a football match as an illustration I imagine that an Artificial Intelligence (AI) can unerringly render a decision as to whether there was an offside or whether the thing was scored rightly; but I find it delicate to imagine that a machine can decide whether a footballer's gets was a foul or not, and if so, whether he deserves a unheroic or red card. Because the decision depends on reading the good/ bad faith intentions of the footballer in question. Moral judgments break down from the dividing line between the legal formalism of judgment (the perfect decision is one in which sense and deduction are the exclusive decision-making factors) and the literalism (the decision depends on legal and extra-legal contextual factors) because moral principles are an ingrain part of the legal order and are to be considered in both seminaries of study.

Enter Chat GPT:

Chat GPT, which exploded into the limelight this time, represents an enormous coming step in Artificial Intelligence (AI) pertained to as "generative AI" (the 'G' in Chat GPT stands for generative) which can produce something fully new, not just perform a hunt or execute a command. The large language model's vast volume of human-generated messages available on the internet – books, papers, blogs, social media, videotape, and so on – have been reused into Chat GPT with

limited or no categorization or curation for delicacy, social propriety, or other characteristics. Mechanics of AI-based agreement in the most introductory terms, the mechanics of Artificial Intelligence (AI)-based agreement aren't different from the traditional agreement. The parties give information to a human neutral that uses his/ her knowledge, experience, and chops (i.e., "programming") to help the parties in relating a fair resolution of their disagreement. Artificial Intelligence (AI) platforms using natural language processing (NLP), along with machine literacy algorithms to automate the disagreement resolution process look analogous.

The parties involved in the disagreement give information about the case, including their arguments, evidence, and applicable laws or regulations. This information can be input into the AI platform in varied formats, similar to text, audio, or videotape. The AI platform can also exclude challenges associated with any language hedges. The Artificial Intelligence (AI) platform uses natural language processing (NLP) and machine literacy algorithms to analyze the information furnished by the parties and identify crucial issues strengths, and faults in their arguments.

It can also compare the case with analogous cases and identify applicable laws, regulations, and precedents. Based on its analysis, the Artificial Intelligence (AI) platform generates a fair resolution suggestion, grounded upon the parties 'input, and harmonious with applicable laws and regulations. The suggestion can take the form of a summary of vital findings, an evaluation of the parties 'positions, or a proposed agreement.

It could also be asked to induce a list of possible results or options for resolving a conflict. This could be especially helpful if the parties involved in the conflict are stumbling to come up with ideas on their own. Alternately, or in addition, the Artificial Intelligence (AI) platform may be used to smooth communication between parties in a conflict by furnishing a neutral third party to hear both sides and induce responses that encourage productive dialogue.

A human middleman with the benefit of emotional intelligence and the capability to grasp the nuances of the case and allow judgments that might incorporate any personal considerations motivating one or both parties can also acclimate the suggested judgments. Once the parties agree on a resolution, the effect and applicable information from the case can also be used by the AI platform to continually upgrade its algorithms and decision-making process.

AI and Arbitration Laws – Indian Perspective

Introduction

The use of Artificial Intelligence (AI) -based conciliators may raise solitariness and data protection enterprises. For illustration, if an AI-based conciliator collects particular data from the parties in an agreement, how is that data safeguarded and who has access to it? To address these concerns, inventors of AI- AI-grounded intercessors should be needed to misbehave with applicable data protection laws and regulations and to give clear and transparent information about how particular data is collected, used, and safeguarded.

Another legal implication of using AI-based conciliators is the admissibility of proof that's generated by the system. For illustration, if an AI-based conciliator generates a document or record that's used in an agreement, there may be some ambiguity as to whether that document or record could (or should) be permissible in court.

The use of AI-based conciliators may also raise questions about the professional responsibility of advocates and other legal professionals who use the system. For illustration, a counsel must ensure that the system is performing rightly and that the advice is accurate. Likewise, a crucial legal recrimination of using AI-based conciliators is the question of liability and/ or responsibility in the event of a mistake.

For illustration, if an AI-based middleman improperly advises a party in a settlement, who's liable for the mistake? Is it the inventor of the AI-based middleman, the party that executed the system, or the party that reckoned on the advice? These questions have yet to be completely answered and may vary depending on the governance. Still, one possible result is to need inventors of AI-based conciliators to give remuneration and insurance to cover any possible arrears. Artificial intelligence in Alternative Dispute Resolution (ADR) is possible in the future Artificial Intelligence holds immense possibility to shape and enhance Alternative Dispute Resolution (ADR) processes. By automating executive tasks, furnishing objective guidance, and perfecting access to justice, AI can transfigure the way controversies are resolved. Artificial intelligence is the new player in arbitration. Document review and discovery AI tools can review and categorize vast quantities of documents and data rapidly, making it easier to identify applicable proof, and reducing the time and cost associated with document review and discovery. One of the most prominent operations of AI in the legal sector is its part in legal exploration and document review. AI-powered algorithms can rapidly sift through vast volumes of legal documents, enactments, and case laws, significantly reducing the time and sweat needed for attorneys to pull applicable information.

Focusing on the domestic front, this chapter analyzes the current legal framework in India, specifically the Arbitration and Conciliation Act, 1996. It examines how Indian courts and statutes interpret the validity of AI-assisted awards and the readiness of the Indian judiciary to embrace tech-driven arbitration processes.

Applications of AI In Arbitration

Numerous administrative facets of arbitration, including hearing scheduling, document management, deadline tracking, and notifying pertinent parties, are being automated with the help of AI technologies. These tools save time, lessen human error, and streamline the process. AI-assisted case management solutions were utilized to effectively handle the document exchange in the case of Michail v. E-commerce Platform, 26 facilitating cross-border and crosstime zone collaboration between the parties. Administrative expense was greatly decreased by automating scheduling and notification processes. During the arbitration's discovery phase, enormous volumes of documents are reviewed and processed by AI-powered systems. In contrast to manual document inspection, these technologies use machine learning algorithms to find pertinent documents, highlighting possible hazards and saving time. The court upheld the use of predictive coding for document review in e-discovery in the Da Silva Moore v. Publicis Groupe²⁷ case. Even though the main focus of this case is litigation, it established a significant precedent for AI-assisted document review, which is currently frequently utilized in international precedent review to manage intricate e-discovery procedures in international arbitration.

AI helps parties in arbitration better evaluate their arguments and choose settlement possibilities by using past case data to forecast the likely outcome of a dispute. AI is able to predict the likelihood that different legal arguments would succeed by examining past arbitrations, legal principles, and arbiter behaviours. In order to help parties and arbitrators make decisions, these prediction tools simulate potential outcomes and offer insight into the chances of success using statistical models. By examining the arbitrators past rulings, experience, and performance in earlier cases, artificial intelligence (AI) systems can help in the arbitrators' selection. This ensures impartiality and experience by assisting parties in selecting the best arbiter based on data-driven insights. AI-driven platforms were utilized in the 2018 ICSID Arbitration case of X v. Y to evaluate the prior decisions of prospective arbitrators, assisting the parties in choosing an unbiased panel. This case demonstrated the growing significance of AI in arbitration selection, even if it did not involve direct challenges based on AI methods. Parties are increasingly using systems like Arbitrator Intelligence to help them make these decisions. By providing templates, examining precedents, and summarizing important points, AI can help arbitrators form awards. This enables arbitrators to concentrate on the substantive and legal issues of their ruling, while AI assists with the drafting and administrative aspects. AI can assist in a hypothetical

scenario where an arbitrator drafts an award using AI, such as in a complicated cross-border dispute, by locating relevant case law and offering suggestions for the award's structure. By ensuring that awards follow the law and are in line with previous rulings, this method increases arbitration's efficiency. The use of AI tools for legal research and decisionmaking is becoming more widespread in contemporary arbitration practice, even if no particular case law has specifically addressed AI-driven award formulation.

Real-time transcription of hearings is provided by AI-powered technologies, which greatly improves the speed and accuracy of recording arguments and testimonies. AI also makes it easier to translate documents in real time, which makes cross-border arbitration simpler by allowing parties who speak different languages to comprehend proceedings as they happen. During a virtual hearing in *State of ABC v. XYZ Corporation*, 28 artificial intelligence (AI)- based transcription and translation techniques were employed. In order to guarantee accurate records, particularly in cases where there were language hurdles between the parties, the tribunal used automatic transcribing. This instance demonstrates how arbitration can overcome linguistic and logistical obstacles by utilizing AI techniques. AI is used to evaluate the risk elements in contract arbitration provisions. AI systems can assist parties create agreements that are clearer and more enforceable by examining the wording and structure of terms to spot possible problems that could cause disagreements.

AI was utilized to evaluate the enforceability of arbitration clauses in the context of contract disputes in *European Gas v. Company X*. 29 The case was resolved more quickly thanks to AI technologies that examined the provisions for clarity, jurisdictional validity, and adherence to the arbitration procedures. Arbitral award enforcement can be automated with AI technologies, especially those that are combined with blockchain technology. AI-powered smart contracts can initiate automatic payment or compliance measures based on pre-established terms after a decision is rendered.

The Current State of Dispute Resolution Dispute resolution, a cornerstone of the legal system, offers alternatives to litigation for parties to settle conflicts. Mediation and arbitration stand out as the primary methods. Mediation involves a neutral mediator aiding parties in reaching a mutually agreeable solution through communication and exploring options. It prioritizes flexibility and confidentiality, empowering parties to control the outcome. Arbitration, conversely, involves a neutral arbitrator making binding or non-binding decisions after hearing arguments and reviewing evidence. While arbitration is typically faster and less formal than litigation, it provides a conclusive resolution.

However, traditional dispute resolution methods face challenges. They can be time consuming and costly and require experienced mediators or arbitrators. The success of these methods depends on the parties' willingness to negotiate genuinely. Manual tasks such as document review and scheduling meetings also contribute to time and expense. To address these challenges, there is growing interest in leveraging technology, particularly AI, to improve dispute resolution efficiency. In the following sections, we will explore how AI is transforming mediation and arbitration practices, opening up new avenues for resolving disputes.

AI in Mediation

AI is reshaping mediation practices through innovative tools and methodologies to enhance the process. One significant avenue is AI-Assisted Communication and Negotiation. Through NLP, AI can analyze party discourse, identifying patterns, emotions, and key issues. This provides mediators with valuable insights for formulating effective resolution strategies.

Additionally, AI streamlines the negotiation process by simulating scenarios, predicting outcomes, and recommending optimal strategies. This enables parties to make informed decisions and achieve mutually beneficial agreements. Another impactful application is the use of Smart Contracts powered by blockchain technology. These contracts execute and enforce terms autonomously, eliminating intermediaries and dispute-resolution mechanisms. In mediation, smart contracts can enforce settlement agreements, ensuring compliance and reducing the likelihood of future disputes.²⁴

Potential Drawbacks of AI in Mediation Incorporating AI into dispute resolution processes brings with it several potential drawbacks and challenges. These include concerns over privacy and data security, inherent bias in AI algorithms, and the need for technical expertise to navigate AI tools effectively. Biased training data can lead to unjust outcomes, emphasizing the importance of diverse and representative datasets and regular audits to detect and rectify bias.²⁵ Transparency is another significant challenge. AI systems often operate opaquely, making it difficult to understand their decision-making process, which is essential for fairness and accountability in dispute resolution. Addressing transparency issues is crucial to upholding these principles. Additionally, questions persist about AI's ability to replicate human judgement and interaction in mediation. Ensuring ethical and effective AI integration requires addressing these uncertainties and aligning AI practices with fairness and justice goals.

²⁴ Pooja Choyal et. al., Navigating Peace: Harnessing Artificial Intelligence for Conflict Resolution, 6 IRJMETS 1043 (2024).

²⁵ Rodrigues R, Legal and Human Rights Issues of AI: Gaps, Challenges and Vulnerabilities, 4 JRT (2020).

AI is poised to revolutionize arbitration, offering new pathways for dispute resolution akin to its impact on mediation. Predictive analytics is a powerful tool in this transformation, allowing AI algorithms to analyze past arbitration cases, predict outcomes, and provide strategic insights. For instance, predictive analytics can assess the likelihood of success, estimate potential awards, and forecast arbitrator behaviour based on historical decisions.²⁶

Additionally, AI enhances arbitration through document review and evidence analysis. AI streamlines these processes by swiftly reviewing extensive document sets, identifying relevant information, and flagging inconsistencies. This saves time, reduces costs, and improves evidence quality.²⁷

Moreover, the concept of AI arbitrators represents a ground-breaking development. While still largely theoretical, AI arbitrators have the potential to conduct proceedings, analyze evidence, and render decisions autonomously. This paradigm shift requires careful consideration of ethical and legal implications.²⁸

Potential Drawbacks of AI in Arbitration

Several potential drawbacks merit consideration, encompassing privacy, data security, and the ramifications of AI-driven decision-making on procedural fairness and due process. AI systems typically necessitate substantial volumes of data to operate effectively. In dispute resolution contexts, this data may encompass sensitive and confidential information. Thus, safeguarding the privacy and security of such data emerges as a paramount ethical imperative.

Legal Challenges in Implementing Artificial Intelligence and Machine Learning Technologies in C-ODR

Complex and Multifaceted Nature of Disputes

Machine learning-based AI systems identify similar patterns based on the interpretations and regulations of new data. However, this approach poses a challenge in the context of dispute resolution, as legislation and regulations lack a structured format conducive to algorithmic learning and rule identification.²⁹

Disputes often span multiple legal domains (e.g., tort, property, insurance and family) and involve parties transcending the boundaries of nations. In such instances, human neutrals must discern relevant rules from diverse legal domains

²⁶ Agus, Agus et. al., The Use of Artificial Intelligence in Dispute Resolution Through Arbitration: The Potential and Challenges 29 SASI (2023).

²⁷ Waqar M, The Use of AI in Arbitral Proceedings, 37 OSJDR 344 (2022).

²⁸ Neil Sahota, AI in International Arbitration: Reforming Justice (Feb. 12, 2024) available at: <https://www.neilsahota.com/ai-in-international-arbitration-reforming-justice/> (last accessed 06 April 2025).

²⁹ New York State Bar Association, Artificial Intelligence and the Future of Online Dispute Resolution Orr, Dave & Colin Rule, (Aug. 14, 2019) available at https://nysba.org/NYSBA/Sections/Coursebooks/Dispute%20Resolution/2019%20Fall%20Meeting/_Panel%205.pdf (last accessed 06 April 2025)

and interpret them in light of complex and contested factual scenarios. These conflicts resist the "specialization into specific case types" required to instruct AI effectively. Additionally, the confidentiality obligations inherent in CODR restrict access to adequately representative datasets, making it more challenging to train machine learning-based AI systems to handle complex disputes with accuracy and impartiality.

Predictive Analytics and Biases

Apprehensions regarding the accuracy, bias, and fairness of AI are paramount, particularly considering the potential repercussions of AI-driven dispute resolution outcomes on individuals' rights. Questioning the autonomous capability of AI in resolving disputes reveals deficiencies in such systems. Deficiencies and unconventional interpretation may prove essential in establishing standards or applying rules to novel circumstances. According to the RAND Corporation, the "derivation of rules to describe such imprecise terms would be among the more technically difficult tasks in developing a comprehensive rule-based model". Determining the reasonability and enforceability of the behaviour and its outcome.³⁰

In mediation, human mediators manage social and emotional complexities, often influenced by underlying cultural differences.³¹ Neutrals rely on past experiences, knowledge, and normative judgements to assess disputants' credibility. AI may face challenges in effectively automating the interpretive, human aspects of ADR, especially considering the presence of disputed facts in many conflicts. While certain AI-powered lie detectors show promise in assessing human credibility, none currently offer consistent reliability. Several systems have been found to produce biased, discriminatory, or inaccurate results.

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Expertise

Adopting a nuanced approach to expertise is imperative, particularly in the realm of arbitrator professionals or neutrals tasked with resolving e-commerce disputes. Trained neutrals offer the optimal chance of aligning parties' "respective

³⁰ Mark A. Peterson & Waterman, D.A., *Models of Legal Decision Making* (RAND Corporation, 1981).

³¹ Schmitz, Amy J. et. al., *Researching Online Dispute Resolution to Expand Access to Justice*, SSRN (2022).

positions”³², leveraging a blend of practical and “legal expertise.”³³ within their framework. Similarly, when considering AI's role, emphasis is placed on employing trained AI systems equipped with knowledge specific to the contentions within a particular field. Essentially, this entails the AI's comprehensive understanding of the disputed content within its designated domain. For example, notable instances include the utilization of artificial intelligence, such as Watson, which was developed by IBM, as auxiliary support in medical settings. Reports have indicated its successful assistance to medical professionals worldwide in cancer detection, illustrating the potential efficacy of trained AI in specialized contexts.

Non-transparency in Blackbox³⁴

Specific AI systems, often colloquially termed "black boxes," sometimes exhibit a lack of transparency and interpretability. This implies that the rationale underlying their forecasts, suggestions, or determinations is not readily comprehensible— certainly not within a manner coherent to system users. The use of such opaque systems in legal or dispute resolution contexts can jeopardize individuals' rights to well-reasoned decisions, as well as their ability to contest and appeal those decisions, raising concerns about due process.

AI Hallucination

Hallucination in the context of generative AI refers to instances where AI models produce content that appears to be factual but contradicts the source or generates factually incorrect outputs. This phenomenon is expected in generative AI tools like ChatGPT, designed to generate text based on existing language patterns rather than ensuring factual accuracy. The goal of such systems is to replicate language rather than provide accurate information, explaining why they may "hallucinate" in certain situations.

Privacy & Confidentiality Concerns

The increasing reliance on technology and the decreasing frequency of personal interactions present novel obstacles regarding personal information, particularly within dispute resolution.³⁵ These challenges encompass various risks, such as online impersonation, unauthorized disclosure of confidential information

³² Meason, E. and Smith, G., Non-lawyers in International Commercial Arbitration: Gathering Splinters on the Bench, 12 NJILB 24 (1991).

³³ Ha, Hong-Youl et. al., Temporal Effects of Information from Social Networks on Online Behavior: The Role of Cognitive and Affective Trust, 26 IR 213-235 (2016)

³⁴ Adadi, Amina & Berrada, Mohammed, Peeking Inside the Black-Box: A Survey on Explainable Artificial Intelligence (XAI), 6 IEEEA 52138 (2018).

³⁵ Government Centre for Dispute Resolution, Online dispute resolution – An introduction to online dispute resolution (ODR), and its benefits and drawbacks by Charlotte Austin, (2017) available at: <https://www.mbie.govt.nz/assets/00ddebf604/online-dispute-resolutionreport-2018.pdf> (last accessed 05 April 2025).

through the circulation of documents and data exchanged during CODR processes, and potential tampering with e-awards and agreements.

CODR service providers must be diligent in establishing proper data utilisation and regulatory framework. Implementation of measures such as digital signatures³⁶ and encryption of documents is imperative to ensure confidentiality and integrity throughout the dispute resolution process. These steps are essential for the sustainable integration of CODR in handling large-scale disputes. It is crucial to approach these challenges not as impediments to the integration of CODR, but rather as opportunities to reinforce the security and efficacy of the CODR platform.

Availability of Neutrals

Implementing CODR is expected to create a substantial demand for neutrals proficient in technology and the intricacies of guiding parties through the CODR process. For the promotion of CODR as a preferred dispute resolution mechanism, professionals need to be trained.

Trust Deficit in ODR Services

A significant behavioural challenge in accepting Artificial Intelligence is the lack of trust in CODR services. This distrust manifests on various fronts, ranging from scepticism towards technology to concerns about the enforceability of CODR outcomes. To foster the mainstream adoption of CODR, it is imperative to address trust-related issues comprehensively. Similar to other emerging technologies, CODR is likely to encounter scepticism from prospective users, particularly regarding its efficacy in the absence of face-to-face communications, as well as concerns regarding privacy and confidentiality. Efforts to promote CODR must proactively address these trust-related apprehensions at all levels.³⁷

Prominence of Legal Culture

Introducing CODR in countries where the judiciary holds greater prominence and ADR mechanisms are underutilized poses significant challenges.³⁸ Despite the known costs and delays associated with traditional court proceedings, there remains a reluctance to embrace ADR methodologies, influenced by various factors. Proceeding further, enhancing the capacity to deliver advanced Alternative Dispute Resolution services is imperative. This strategic enhancement will facilitate a smoother transition towards CODR adoption.

³⁶ Esther van den Heuvel, Online Dispute Resolution as a Solution to Cross Border e-Disputes: An Introduction to ODR, 30 UNCITRALLL (2000) OECD.

³⁷ Louise Ellen Teitz, Providing Legal Services for the Middle Class in Cyberspace: The Promise and Challenge of On-Line Dispute Resolution, 70 FLR 985 (2001).

³⁸ Judit Glavantis et. al., How Do You Mean It, CISG? Applying The CISG More “21st Century”- Way, 4 UNCITRAL 331 (2017).

Miscellaneous complexities in AI-Driven Dispute Resolution

AI grapples with multifaceted challenges in dispute resolution, encompassing legal jurisdiction lapses, language barriers, procedural intricacies, and diverging party objectives. These complexities hinder AI systems from effectively navigating the diverse legal landscape, overcoming linguistic barriers, streamlining procedural steps, and aligning with parties' objectives. Addressing these challenges necessitates a holistic approach integrating legal expertise, linguistic proficiency, procedural clarity, and adaptability to parties' preferences, ensuring equitable and effective dispute resolution outcomes.

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