



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 13 Issue: IX Month of publication: September 2025

DOI: https://doi.org/10.22214/ijraset.2025.74378

www.ijraset.com

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ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538

Volume 13 Issue IX Sep 2025- Available at www.ijraset.com

A Comprehensive Review on Artificial Intelligence in Indian Law

Dr.Goldi Soni¹, Ayush Dewangan², Rishabh Ghritlahare³

¹Assistant Professor, ^{2,3}Student B.Tech, Computer Science and Engineering, Amity School of Engineering and Technology, Amity University Chhattisgarh

Abstract: Artificial Intelligence (AI) is transforming the Indian legal system by enhancing efficiency, accessibility, and decision-making processes. AI-powered tools assist in legal research, contract analysis, case prediction, and dispute resolution, reducing the workload of lawyers and judges. The Indian judiciary has acknowledged AI's potential, with initiatives like SUPACE (Supreme Court Portal for Assistance in Court Efficiency) aimed at streamlining case management. Additionally, AI-driven chatbots and legal analytics platforms help citizens access legal information more efficiently. However, the integration of AI raises concerns regarding data privacy, bias, accountability, ethical implications, and the need for robust regulatory frameworks. The evolving Indian legal landscape must balance technological advancements with fundamental rights to ensure fairness, transparency, and justice.

Keywords: Artificial Intelligence, Indian Law, Judiciary, Legal Research, Regulation

I. INTRODUCTION

Artificial intelligence (AI) is playing an increasingly vital role in India's legal and criminal justice system, bringing advancements as well as challenges. The study on "Artificial Intelligence in the Indian Criminal Justice System" explores AI's impact on human rights, business regulations, and criminal liabilities. It highlights the need for stronger laws to ensure fairness, transparency, and accountability in AI applications. Since AI can influence legal decision-making and crime detection, policymakers must carefully design frameworks that balance innovation with ethical concerns.

A. AI in the Indian Criminal Justice System

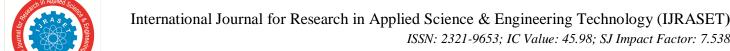
Artificial intelligence (AI) is increasingly shaping India's legal and criminal justice system, offering both advancements and challenges. The study on AI's role in the Indian legal landscape explores its impact on human rights, business regulations, and criminal liabilities. AI-powered tools assist in crime detection, offender management, and predictive policing, but their use raises concerns about fairness and accountability. To harness AI effectively while safeguarding justice, policymakers must establish clear legal frameworks that ensure transparency and ethical application.

B. AI in the Indian Judiciary

The Indian judiciary is leveraging AI to improve efficiency in legal research, case management, and decision-making. AI-powered tools like SUVAAS and SUPACE assist judges by organizing vast amounts of legal data, reducing case backlogs, and improving legal analysis. However, AI's inability to comprehend human emotions and moral complexities poses a challenge. While AI can support legal professionals, its role should remain limited to assistance rather than full autonomy, ensuring that human judgment continues to be the foundation of legal decision-making.

C. AI and Criminal Liability in India

AI's increasing autonomy in various sectors raises complex legal questions, particularly regarding criminal liability. Since AI lacks legal personhood, determining accountability for AI-driven crimes is a significant challenge. Law enforcement agencies are employing AI for crime prevention, facial recognition, and surveillance, yet concerns over data privacy, biased decision-making, and wrongful arrests persist. Strengthening legal frameworks to clearly define the roles and responsibilities of AI developers, operators, and users is essential to maintaining justice and public safety.



ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 13 Issue IX Sep 2025- Available at www.ijraset.com



D. AI in Legal Research and Intellectual Property

Beyond criminal justice, AI is transforming India's broader legal landscape, assisting law firms in contract analysis, case prediction, and legal research. However, the emergence of AI-generated content has sparked debates over copyright and intellectual property rights. Traditional legal definitions of authorship do not account for AI's role in content creation, necessitating updates to India's copyright and intellectual property laws. As AI becomes more integrated into legal processes, ensuring ethical use while preserving human rights and legal integrity remains a critical challenge.

E. AI and Ethical Challenges in the Legal System

The integration of AI in the Indian legal system brings significant ethical challenges, particularly regarding bias, data privacy, and decision-making transparency. AI systems, if not carefully designed, can reinforce existing biases in judicial and law enforcement processes, leading to unfair outcomes. Additionally, the use of AI in legal decision-making raises concerns about accountability—whether AI-generated decisions can be challenged or appealed in a court of law. Data privacy is another critical issue, as AI relies on vast amounts of personal and legal data, making it vulnerable to misuse or breaches. Addressing these ethical concerns requires the establishment of strict regulatory guidelines, human oversight, and a commitment to fairness and justice in AIdriven legal applications.

F. AI in Alternative Dispute Resolution (ADR)

AI is revolutionizing Alternative Dispute Resolution (ADR) by streamlining mediation, arbitration, and negotiation processes in India. AI-powered platforms can analyze legal precedents, assess case merits, and suggest fair settlements, reducing the time and costs associated with traditional litigation. Online Dispute Resolution (ODR) tools leverage AI to facilitate faster conflict resolution, particularly in commercial disputes and consumer grievances. However, challenges such as ensuring neutrality, maintaining confidentiality, and integrating AI with existing legal frameworks must be addressed. With proper regulation and oversight, AIdriven ADR can enhance access to justice and ease the burden on India's overburdened judiciary.



Figure 1 – AI in Indian Law System



ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 13 Issue IX Sep 2025- Available at www.ijraset.com

II. LITERATURE REVIEW

Artificial Intelligence (AI) in the Indian legal system highlights both the opportunities and challenges posed by its integration. Chatterjee and Sreenivasulu (2023) explore AI's impact on human rights and legal frameworks, emphasizing the need for stronger regulations to ensure fairness and accountability. Similarly, Sayyed (2023) discusses the complexities of criminal liability, noting the absence of clear legal personhood for AI and the challenges in determining accountability. Marda (2023) critiques AI-driven decision-making, arguing that biases and inaccuracies must be addressed at the policy level. Narayanan et al. (2023) examine AI's role in India's judiciary, highlighting tools like SUVAAS and SUPACE that assist judges in legal research and case management, though concerns about bias and ethical considerations remain. Vig (2023) and Shah et al. (2023) explore AI's intersection with copyright law, questioning whether AI-generated content can be legally protected under India's existing intellectual property laws. Across the literature, scholars agree that while AI can enhance efficiency in legal and judicial processes, India must develop proactive policies and ethical guidelines to balance technological advancements with fundamental legal principles.

Artificial Intelligence (AI) in the Indian legal system highlights its transformative potential while also underscoring ethical, legal, and operational challenges. Researchers such as Mishra and Sharma (2023) explore AI's role in addressing judicial inefficiencies, particularly through tools like SUPACE and SUVAAS, which assist in case management and legal research. Dharneesh et al. (2023) emphasize AI's benefits in legal practice, improving efficiency while cautioning against its limitations in replacing human judgment. AI is also playing a crucial role in crime detection and investigation, as discussed by Datta and Kumar (2023), who note that while AI can enhance law enforcement, concerns regarding data privacy, biases, and human oversight remain. Similarly, Rani (2023) examines AI's use in policing, highlighting both its advantages and the need for strong legal frameworks to prevent misuse. Furthermore, innovations such as the AI-driven legal chatbot "Avyanna," introduced by Sil et al. (2023), illustrate AI's potential to bridge accessibility gaps in legal aid, particularly for women. While AI can expedite judicial decision-making, as proposed by Rao and Gore (2023) in bail applications, ethical concerns remain regarding fairness and accountability. Overall, the literature suggests that while AI can significantly improve legal efficiency and accessibility, its implementation must be accompanied by robust regulations to ensure ethical use and safeguard fundamental rights.

Artificial Intelligence (AI) in Indian law explores its impact on various legal domains, including copyright, education, patentability, and decision-making. Singh and Shanker (2023) highlight the challenges AI poses to India's copyright laws, questioning whether AI-generated content can be granted legal protection under existing frameworks. Similarly, Shah et al. (2023) propose treating AI as a co-author while advocating for updates to the Copyright Act to address intellectual property concerns. Ojha (2023) examines the ethical and social ramifications of AI-driven decision-making, comparing Indian and European laws to suggest regulatory improvements. Hooda and Kumari (2023) analyze AI's role in higher education, emphasizing the need for policies that ensure responsible AI integration in academic institutions. Deshpande and Kamath (2023) discuss AI's involvement in patent law, particularly in cases like the DABUS AI, which challenged traditional notions of inventorship by seeking patent rights without human intervention. Collectively, these studies underscore the necessity for comprehensive legal reforms to address AI's growing influence while ensuring fairness, accountability, and ethical governance in India's legal system.

Artificial Intelligence (AI) in Indian law underscores its transformative potential while highlighting critical legal and ethical challenges. Yadav (2023) examines AI's growing role in patent law, particularly in determining the patentability of AI-generated innovations and its implications for technological progress. Greavs and Varsha (2023) discuss AI's impact on legal practice in India, comparing regulatory frameworks from the US and UK to suggest best practices for AI governance. Tyagi (2023) explores AI's application in Indian courts, emphasizing that AI should assist rather than replace judges to maintain human judgment in legal decision-making. Cath (2023) delves into the broader governance challenges of AI, addressing concerns around fairness, transparency, and accountability in high-risk areas like law enforcement and banking. Collectively, these studies emphasize the need for comprehensive legal reforms and ethical guidelines to ensure AI's responsible integration into India's legal system while maintaining justice, accountability, and public trust.

Artificial Intelligence (AI) in Indian law covers various aspects, from robotics and governance to legal research and question-answering systems. Vig and Dwivedi (2023) examine the legal challenges associated with AI-powered robots in India, emphasizing concerns about liability, safety, and cybersecurity, and advocating for regulatory updates. Crepelle and Murtazashvili (2023) extend the discussion to AI's implementation on American Indian reservations, underscoring the need for ethical AI adoption and Indigenous Data Sovereignty. Kaur et al. (2023) explore the governance of AI-driven smart systems in India, highlighting security, privacy, and regulatory gaps in managing AI and IoT applications.

Meanwhile, Nigam et al. (2023) focus on AI-powered Legal Question Answering (AILQA) systems, evaluating their effectiveness in improving legal research and decision-making in India's complex legal landscape.



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Collectively, these studies stress the urgent need for updated regulations, ethical AI frameworks, and technological advancements to ensure AI's responsible and effective use in Indian law.

Artificial Intelligence (AI) continues to reshape the Indian legal system, presenting both opportunities and regulatory challenges across various domains. Researchers such as Vig and Shanker (2023) analyze AI's role in intellectual property law, emphasizing the complexities of AI-generated content ownership and copyright protection. Deshpande and Kamath (2023) explore AI's influence on patent law, particularly regarding AI-generated inventions and the evolving criteria for patentability. Meanwhile, Tyagi (2023) and Rao & Gore (2023) focus on AI's application in judicial processes, advocating for AI-assisted adjudication to enhance efficiency while maintaining human oversight. Additionally, scholars like Kaur et al. (2023) and Cath (2023) examine AI governance, stressing the need for robust ethical frameworks and legal safeguards to ensure responsible AI deployment. Across these studies, a common theme emerges—the necessity for dynamic legal reforms to balance AI's transformative potential with fundamental principles of justice, fairness, and accountability in India's legal landscape.

Artificial Intelligence (AI) is also making significant inroads into legal research, law enforcement, and dispute resolution in India. Nigam et al. (2023) highlight the role of AI-powered Legal Question Answering (AILQA) systems in streamlining legal research, improving accessibility, and enhancing decision-making for legal professionals. Rani (2023) examines AI's use in policing, emphasizing its potential for crime prediction and surveillance while raising concerns about bias, privacy, and ethical oversight. Sil et al. (2023) introduce AI-driven legal aid solutions, such as the chatbot Avyanna, which aims to bridge the legal knowledge gap, particularly for marginalized groups. Furthermore, Ojha (2023) compares AI regulations in India and the European Union, identifying areas where India's legal framework must evolve to address AI's growing role in governance and decision-making. These studies collectively stress the importance of balancing AI adoption with ethical considerations, ensuring that technological advancements do not compromise justice, transparency, and human rights.

III. COMPARISON OF PAST PUBLISHED PREVIOUS RESEARCH PAPERS

The reviewed research collectively explores the integration of Artificial Intelligence (AI) into the Indian legal and judicial landscape, highlighting both opportunities and challenges. Vig (2024) critically examines the intersection of generative AI and copyright law in India, identifying gaps in legal recognition of AI-generated content and proposing necessary reforms. Narayanan et al. (2024) investigate AI's potential in enhancing judicial processes while addressing ethical concerns, emphasizing that while AI can improve efficiency, it cannot replace judges due to issues of moral reasoning and bias. Tambekar (2024) assesses AI tools in the legal field, noting their role in improving research efficiency but also pointing out barriers such as privacy concerns and resistance to adoption. Mishra and Sharma (2024) analyze current applications and future prospects of AI in the judiciary, stressing its utility in addressing case backlogs while underlining regulatory and implementation challenges. Similarly, Dharneesh et al. (2024) focus on the legal industry, illustrating how AI can transform law firms by enhancing productivity and client management, though it falls short of replacing lawyers due to the interpretive and moral dimensions of legal work. Together, these studies underscore AI's potential to transform India's legal ecosystem while calling for regulatory frameworks, ethical safeguards, and strategic integration to overcome existing limitations.

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SIN	Title	Author(s)	Yearof	Objective	Outcome	tion s	Future Scope						
o.			ication										
1	Intersection of	Shinu Vig	2024	To analyze AI-	The study highlights	Lacks judicial	Proposes legal						
	generative			generated	gaps in Indian	precedents on AI	reforms for AI-						
	artificial			content's legal	copyright law and	authorship in	generated content						
	intelligence and			challenges in	suggests reforms for	India.	and global policy						
	copyright: an			Indian copyright	AI-generated		comparisons.						
	Indian perspective			law and suggest	content protection.								
				reforms.									
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Table No. 1 – Comparison Table of Past Published Previous Research Papers



ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 13 Issue IX Sep 2025- Available at www.ijraset.com

2	Intelligence Inroads into the Indian Judicial System	Narayanan, Monica Agarwal, Swati Bansal	while addressing legal and ethical concerns.	personalized learning, engagement, and automation, butconcerns about academic dishonesty and AI misuse remain.	reasoning and potential biases in decision-making.	Develop AI regulations ensuring fairness, data security, and ethical AI integration in judiciary.
3	Indian legal field with Artificial Intelligence tools	Nimisha	system, identifying benefits and challenges.	efficiency but raises privacy and ethical concerns.	processes and resistance hinder AI adoption in legal practices.	improve legal service efficiency.
4	Artificial Intelligence InThe Indian Judiciary: Current Applications And Future Prospects		in improving India's judiciary	implementation and regulation	replace judges; regulatory gaps and resistance hinder full adoption.	Develop AI- driven legal frameworks, expand AI tools, and improve judicial efficiency.
5	Need to Embrace	B. Dharneesh, S. Thenisha, S. S. Srithick, A. Abirami	To explore how AI can enhance efficiency, reduce workloads, and boost productivity in India's legal industry.	without overburdening	replace human lawyers, as legal decisions involve moral	Focus on integrating AI effectively into legal practices to lead future advancements.

IV. CONCLUSION

Artificial Intelligence (AI) into the Indian legal and judicial system presents both opportunities and challenges. AI has the potential to enhance efficiency, reduce case backlogs, and improve legal research, as seen in the adoption of tools like SUPACE and SUVAAS. However, concerns about transparency, bias, and ethical decision-making remain significant barriers to full implementation. AI's role in criminal liability, copyright, and patent law also raises critical legal questions that require updated regulations and frameworks. While AI cannot replace human judges and lawyers due to the necessity of moral reasoning, its adoption can streamline processes and support decision-making. To maximize AI's benefits while mitigating risks, India must focus on developing comprehensive legal frameworks, ensuring responsible AI use, and fostering collaboration between legal and technological experts. Furthermore, the successful integration of AI in the Indian legal system will depend on continuous advancements in AI technology, combined with a strong regulatory framework that upholds justice and fairness. Policymakers must work closely with legal professionals, technologists, and ethicists to create guidelines that prevent misuse while ensuring AI remains a tool for enhancing legal accessibility and efficiency.



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Volume 13 Issue IX Sep 2025- Available at www.ijraset.com

Public awareness and training programs for judges, lawyers, and law enforcement officials will also be crucial to ensure AI's responsible deployment. By addressing ethical concerns, improving AI literacy in the legal sector, and updating existing laws, India can harness AI's full potential while safeguarding fundamental rights and maintaining trust in the justice system.

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