



International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

The Growth of AI and Its Impact on Indian Labour Laws

Chandru S

UG Student School Of Excellence in Law, Chennai

ABSTRACT:

The exponential growth of Artificial Intelligence (AI) has transformed the global labour landscape, presenting both opportunities and challenges for policymakers. In India, where the labour force is vast and diverse, the integration of AI in sectors such as manufacturing, IT, logistics, and the gig economy is reshaping traditional employment structures. AI-driven technologies are increasingly replacing routine human tasks, leading to job displacement, skill redundancy, and the emergence of algorithmic management. Despite this shift, Indian labour laws many of which were designed for the industrial era have not evolved in parallel with technological advancements. This research examines the legal and ethical implications of AI in the Indian employment context. It identifies key gaps in the current labour law framework, such as the lack of recognition for gig workers, absence of accountability for AI-driven decisions, and insufficient data privacy protections in the workplace. The study highlights the pressing need to modernize Indian labour legislation to ensure fair treatment, job security, and transparency in AI-managed work environments.

Keywords: Artificial Intelligence (AI), Indian Labour Laws, Job Displacement, Data Privacy, Labour Law Reforms, Legal Framework

INTRODUCTION

We are living in a time where technology is moving faster than ever before, and one of the most powerful technologies shaping our present and future is Artificial Intelligence (AI). AI is no longer a futuristic idea—it is already here, influencing the way we live, work, and interact. It is present in our smartphones, online shopping experiences, healthcare systems, and more importantly, in the workplace. What makes AI different from past technologies is that it doesn't just follow instructions—it learns, adapts, and makes decisions. And this shift in how technology works has begun to change the nature of jobs and the structure of employment itself.

In India, where the economy is still developing and the labour force is extremely diverse—from highly skilled tech workers to daily wage labourers—the impact of AI is particularly significant. We are seeing rapid AI adoption in industries like manufacturing, customer service, logistics, agriculture, and even in government operations. Large companies are using AI to automate repetitive tasks, predict consumer behaviour, and manage operations more efficiently. On the other hand, many digital platforms that rely on gig and freelance workers are using AI to allocate tasks, monitor performance, and even decide payments.

While this technological growth offers undeniable benefits—like improved productivity, precision, and cost savings—it also comes with serious challenges. Jobs that once required human effort are being taken over by machines, leaving workers either unemployed or forced to shift into unfamiliar roles without proper training. Workers are being monitored through apps and sensors, often without knowing how their data is being used. Hiring and firing decisions may be made based on AI algorithms, but these decisions can be biased, opaque, and difficult to challenge. All of this creates a new kind of workplace where rules are unclear, rights are uncertain, and traditional forms of protection no longer apply.

This is where the role of labour laws becomes critical. In India, most labour laws were written decades ago, based on a fixed workplace environment where workers and employers interacted face-to-face and roles were clearly defined. These laws focus on issues like minimum wages, working hours, safety, job security, and trade unions. However, they do not adequately address the realities of modern AI-driven workplaces. For example, there is no clear legal definition of a gig worker or platform worker in most laws. There is no legal framework to check if an AI system is making fair decisions. There is also no mechanism to ensure that workers' data is protected or used ethically.

This disconnect between how work is done today and how it is regulated has created a vacuum in the Indian legal system. As AI continues to grow, the risks of worker exploitation, data misuse, and algorithmic discrimination also grow. At the same time, we also risk missing out on the opportunity to use AI in ways that can improve workers' lives—by reducing physical strain, making workplaces safer, and ensuring faster access to benefits. Therefore, there is a strong need to modernize Indian labour laws to keep pace with this technological change. We need laws that are flexible yet protective, innovative yet inclusive. Labour policies must evolve to address the rights and responsibilities in AI-managed workspaces, redefine employment relationships, and ensure that workers are not left behind in the name of progress.

This article attempts to analyse the growth of AI and its effects on labour in India from a legal, ethical, and social standpoint. It discusses how existing laws fall short, what reforms are urgently needed, and how a balance can be struck between technological advancement and the protection of human dignity. It aims to not only highlight the challenges but also provide practical suggestions for a future where AI and labour rights can coexist in harmony.

ABOUT AI

Artificial Intelligence refers to machines or systems that mimic human intelligence to perform tasks such as learning, reasoning, problem-solving, and decision-making. It includes subsets like machine learning, natural language processing, and robotics. In recent years, AI has matured from experimental research to real-world applications in sectors such as healthcare, finance, agriculture, manufacturing, and logistics. Its integration into business operations is driven by the need for efficiency, cost reduction, and accuracy.

AI AND LABOUR LAWS IN INDIA

Artificial Intelligence is no longer a luxury or an experimental concept—it has become a crucial part of how businesses function. In India, where employment systems are still largely based on traditional hierarchies, face-to-face supervision, and manual processes, the entry of AI is creating waves of transformation. But while industries are quickly embracing AI for efficiency and growth, our legal system—particularly our labour laws—is struggling to keep pace.

India's labour law framework is one of the most complex in the world. It consists of several central and state-level legislations that govern wages, working conditions, industrial disputes, and social security. However, these laws were written at a time when jobs were largely manual, and the concept of remote or algorithmic work didn't exist. The very foundation of these laws assumes a human employer, a physical workplace, and a clear worker-employer relationship. But in the AI era, those assumptions are quickly becoming out-dated.

AI is being used in various aspects of employment—from hiring to monitoring, and even decision-making. For example, AI tools now screen resumes, conduct virtual interviews, track productivity, and analyse worker behaviour. Many businesses, especially in the gig and platform economy, use algorithms to assign tasks, calculate pay, or deactivate users. But Indian labour laws do not clearly address whether these decisions can be legally challenged, who is accountable for errors or bias, and how workers can protect their rights in such environments.

One major gap is the lack of regulation around **gig workers** and **platform workers**—many of whom are managed by AI systems rather than traditional human supervisors. Food delivery drivers, cab aggregators, and freelance digital workers often operate under unclear terms, without access to social security or legal protections. The **Code on Social Security, 2020** took a small step by recognizing gig and platform workers, but it still leaves many grey areas unanswered. For instance, are platform companies employers or merely intermediaries? Are algorithmic decisions binding or open to appeal? These are critical questions that remain unresolved.

Moreover, **privacy and data protection** are major concerns. AI systems often rely on large amounts of personal and behavioural data to function. Workers may not even be aware of how their data is collected, used, or stored. Current Indian labour laws do not offer explicit safeguards for workers in this regard. Until India's data protection laws are integrated with labour regulations, many employees may remain vulnerable to misuse or manipulation of their personal information. Another critical issue is **algorithmic bias**. AI is trained on data, and if the data is biased, the decisions made by AI systems will be too. For instance, AI used in hiring might favour candidates from certain backgrounds or educational qualifications, unknowingly discriminating against others. Labour laws in India currently have no provision to audit or regulate such systems. As AI becomes more involved in core employment processes, the absence of accountability mechanisms could lead to unfair labour practices.

GROWTH OF AI IN LABOUR LAW

The growth of Artificial Intelligence in the domain of labour law marks a turning point in how legal frameworks interact with technology. While AI has been widely discussed in sectors like healthcare, finance, and transportation, its gradual yet impactful entry into employment and labour-related matters is an area gaining increasing attention. AI is not only transforming the way businesses manage their workforce, but also forcing lawmakers and legal scholars to reconsider the traditional understanding of work, rights, and regulation.

Over the last decade, AI has made its presence felt in nearly every phase of the employment lifecycle. From recruitment algorithms that analyse thousands of job applications in minutes to AI-powered platforms that monitor productivity, performance, and even behaviour—AI is now playing a key role in how workers are selected, managed, evaluated, and retained. In India, with the explosion of digital platforms and start-ups, this trend is accelerating rapidly. Many organizations, especially in the private sector, are adopting AI to optimize workforce management, often replacing human supervision with algorithmic oversight.

However, what is more recent and significant is how AI is now influencing legal thinking and enforcement in labour law. Courts, regulators, and lawmakers are beginning to confront scenarios that were once unimaginable—cases where workers are denied opportunities by automated systems,

dismissed based on algorithmic scoring, or left without recourse due to lack of human accountability. These developments are driving a slow but noticeable shift in the interpretation and application of labour law principles in India.

Legal scholars are now debating whether current labour protections apply to workers who are managed not by human bosses but by software systems. The emergence of gig economy platforms—where workers are selected, paid, rated, and removed by AI—has pushed the boundaries of what it means to be an employee. For the first time, the law must consider the role of technology not just as a tool, but as a decision-maker. This shift has begun to influence how new labour codes are being framed, especially in terms of social security for gig and platform workers, though much more work remains. Moreover, the potential of AI in labour law enforcement is also being explored. With the right safeguards, AI could help monitor compliance with wage laws, track workplace violations, and even predict labour disputes before they arise. Government agencies could use AI to inspect factories, identify high-risk work environments, and ensure companies follow labour laws, especially in rural or informal sectors where enforcement is weak.

At the same time, the ethical concerns around AI's use in labour are becoming harder to ignore. Issues such as bias in recruitment algorithms, lack of transparency in automated decisions, and data surveillance in the workplace are sparking important conversations about worker rights and dignity in a digital environment. These concerns are slowly making their way into public discourse and influencing the direction of labour law reform in India.

In conclusion, the growth of AI in labour law is not just about adopting a new technology—it is about rethinking the legal ecosystem that governs work in a digitally driven world. As AI continues to evolve, India's labour law must not only catch up but also proactively shape the ethical and fair use of AI in employment. This is an opportunity to build a modern legal framework that supports innovation while ensuring justice, transparency, and protection for all workers—whether supervised by a person or a machine.

ADVANTAGES OF AI IN LABOUR LAW

- **Improved Compliance:** AI helps organizations automatically track work hours, wages, and benefits, reducing errors and improving legal compliance.
- **Faster Dispute Handling:** AI can assist in resolving employment disputes by analyzing documents and identifying legal patterns quickly.
- **Bias-Free Hiring:** When designed properly, AI can reduce human biases in recruitment and promote fair hiring practices.
- **Workplace Safety:** AI systems can monitor safety in real-time, especially in high-risk industries, reducing accidents.
- **Support for Gig Workers:** AI-powered platforms provide job opportunities and task management for remote and freelance workers.

DISADVANTAGES OF AI IN LABOUR LAW

- **Lack of Transparency:** AI decisions in hiring or firing are often unclear, making it hard for workers to challenge them.
- **Privacy Concerns:** Constant AI-based monitoring can feel invasive and reduce worker trust.
- **Potential Bias:** AI trained on biased data can unintentionally discriminate in hiring or evaluation.
- **Job Losses:** Automation can replace routine jobs, affecting low-skilled workers the most.
- **Legal Gaps:** Current Indian labour laws do not adequately address AI-related employment issues, leaving workers vulnerable.

LEGAL IMPLICATIONS IN LABOUR LAW

The integration of Artificial Intelligence into the workforce has raised several legal challenges that Indian labour laws are not fully prepared to address. Traditionally, labour laws were designed to govern the relationship between human employers and employees, within a physical workspace. However, with AI now making key decisions in recruitment, monitoring, and even termination, these laws face significant limitations.

One major legal implication is **accountability**. When AI systems make decisions that affect workers—such as denying employment, issuing warnings, or tracking performance—there is no clear legal responsibility. Who is liable if an AI system is unfair or inaccurate: the employer, the software provider, or no one at all? This creates a legal vacuum, leaving affected employees with limited recourse.

Another concern is **worker classification**. Many digital platforms use AI to manage gig and freelance workers. These workers often fall outside traditional definitions of “employee” and are thus denied rights like minimum wage, social security, or dispute resolution. Indian law has yet to fully clarify whether such AI-managed workers should be protected under labour codes.

Data privacy is another emerging issue. AI relies on vast amounts of personal and behavioural data, including biometric information. However, there are few protections in Indian labour laws to regulate how employee data is collected, used, or stored. Without strong privacy rules, AI systems can be misused to surveil or exploit workers without their knowledge.

Moreover, there is growing concern over **discrimination and bias** in AI systems. If an algorithm denies a job or promotion due to hidden biases, the current legal framework offers no clear way for workers to challenge that decision. Labour courts and tribunals are also unfamiliar with the technicalities of AI, making it harder to assess or interpret such cases fairly.

Finally, there is a need for **regulatory oversight**. As AI continues to play a more central role in employment, regulators must step in to ensure these technologies are used ethically. This includes setting standards for algorithmic transparency, fairness, and auditability within the workplace.

In short, while AI is reshaping the labour landscape, the legal system in India must evolve to catch up. Clear laws, updated definitions, and technological awareness are essential to protect workers' rights and ensure justice in an AI-driven job market.

SUGGESTIONS

- **Update Legal Definitions:** Include AI-managed and gig workers in labour law protections.
 - **Ensure Human Oversight:** Make human review mandatory for AI-based decisions like hiring or termination.
 - **Promote Transparency:** Require disclosure of how AI systems work and regular algorithm audits.
 - **Right to Appeal:** Grant workers the right to understand and challenge AI-driven decisions.
 - **Strengthen Data Privacy:** Implement strict rules for handling employee data used by AI tools.
 - **Awareness and Training:** Conduct educational programs on AI rights and workplace responsibilities.
 - **Create a Regulatory Body:** Establish a dedicated authority to monitor and guide AI use in employment.
 - **Ethical AI Certification:** Encourage companies to use AI systems that are certified for ethical use in employment practices.
 - **Worker Consent Mechanism:** Introduce legal requirements for obtaining informed consent from employees before using AI tools for monitoring or decision-making.
 - **Algorithmic Bias Testing:** Mandate regular testing of AI systems to detect and correct biases, especially in recruitment and evaluation.
 - **Digital Labour Rights Charter:** Draft a comprehensive set of digital rights for workers impacted by AI, covering transparency, fairness, and access to human intervention.
 - **Periodic Policy Reviews:** Conduct regular reviews of labour laws to keep up with advancements in AI and workplace technologies.
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CONCLUSION

The rise of Artificial Intelligence marks a significant turning point in the world of work. While it brings innovation, speed, and efficiency to workplaces, it also challenges the very foundation of traditional labour laws in India. As AI begins to influence everything from hiring to performance monitoring and workplace surveillance, it is essential that the legal system evolves to address these changes.

Indian labour law, rooted in an era of human-centred employment, now faces the need for urgent reform. Without clear legal safeguards, workers may be left vulnerable to unfair practices, data misuse, and algorithmic discrimination. At the same time, if harnessed responsibly, AI can help promote fairness, improve workplace safety, and streamline legal compliance.

The future of labour law in India must strike a balance between embracing technological progress and protecting the dignity and rights of workers. This requires collaboration among lawmakers, technologists, employers, and civil society. Proactive legal reform, ethical AI practices, and widespread awareness will be key in ensuring that innovation benefits everyone—not just a few.

The convergence of AI and labour law is one of the defining issues of our time. India stands at a crossroads where it can either lead by designing forward-thinking regulations or risk falling behind with outdated systems. A holistic approach is needed—one that safeguards worker rights, promotes innovation, and ensures that technology serves humanity. With the right policies, AI can be a tool for empowerment rather than displacement. In conclusion, the growth of AI in Indian labour law is not a threat, but a challenge—one that, if addressed wisely, can lead to a more just, inclusive, and forward-looking employment ecosystem.

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