

ISSN - 2277 - 5730

AN INTERNATIONAL MULTIDISCIPLINARY
QUARTERLY RESEARCH JOURNAL

AJANTA

Volume - XV

Issue - I

January - March - 2026

ENGLISH PART - III



ज्ञान-विज्ञान विमुक्तये

**Peer Reviewed Refereed and
UGC Listed Journal No. 40776**

Single Blind Review / Double Blind Review

Impact Factor / Indexing

2023 - 7.428

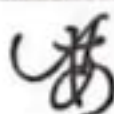
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PUBLISHED BY



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17. Artificial Intelligence, Technology, and Law: Redefining Social Justice and Human Dignity in the Digital Era

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Abstract

The rapid advancement of artificial intelligence (AI) and digital technologies is fundamentally reshaping legal systems, governance structures, and social interactions in the twenty-first century. As algorithmic decision-making increasingly influences areas such as criminal justice, welfare distribution, employment, healthcare, and surveillance, critical questions arise regarding social justice, human dignity, and the rule of law. This paper examines how the integration of artificial intelligence and emerging technologies is redefining traditional legal concepts of fairness, accountability, and equality in the digital era.

The study explores the dual role of AI as both a transformative tool for enhancing access to justice and a potential source of systemic bias, exclusion, and human rights violations. While AI-driven systems offer efficiency, consistency, and predictive capabilities, their deployment often reflects embedded social prejudices, opaque decision-making processes, and power asymmetries that challenge foundational principles of social justice. The paper critically analyses how automated governance can marginalize vulnerable populations, undermine due process, and erode human dignity when legal safeguards are insufficient or poorly enforced.

Keywords: Artificial Intelligence, Technology and Law, Social Justice, Human Dignity, Digital Governance

Introduction

The twenty-first century has witnessed unprecedented technological advancement, with artificial intelligence emerging as one of the most transformative forces shaping contemporary society. AI-driven technologies now influence critical domains such as governance, law enforcement, healthcare, employment, education, and judicial decision-making. As these technologies increasingly mediate social relations and public decision-making, they raise profound legal, ethical, and social questions concerning social justice and human dignity in the digital age.

Law has traditionally served as a normative framework to protect individual rights, promote equality, and ensure fairness within society. However, the integration of artificial intelligence into legal and administrative processes challenges foundational legal principles such as accountability, transparency, due process, and non-discrimination. Automated decision-making systems, while offering efficiency and predictive accuracy, often operate through opaque algorithms that may reproduce social biases embedded in data sets. This paper situates artificial intelligence at the intersection of technology and law, examining its implications for redefining social justice and human dignity in the digital era.

Objective of Study

- To examine the role of artificial intelligence and digital technologies in transforming legal systems and governance structures in the 21st century.
- To analyze the impact of artificial intelligence driven decision-making on social justice, particularly in relation to equality, fairness, and access to justice.
- To evaluate the implications of artificial intelligence on the protection and preservation of human dignity within legal and regulatory frameworks.
- To identify legal, ethical, and human rights challenges arising from the use of artificial intelligence in public and private decision-making processes.
- To assess the adequacy of existing national and international legal frameworks in regulating artificial intelligence to prevent discrimination, bias, and misuse.
- To explore the potential of human-centered and rights-based approaches to AI governance in promoting inclusive and equitable social development.

Social Justice in the Digital Era

The concept of social justice has traditionally been grounded in principles of equality, fairness, and equal access to rights and opportunities. In the digital era, however, the rapid integration of artificial intelligence and advanced technologies into social, economic, and legal systems has significantly transformed the meaning and practice of social justice. Technology-driven societies increasingly rely on automated systems for decision-making in areas such as welfare distribution, criminal justice, employment, education, and public administration, thereby reshaping how justice is delivered and experienced.

Equality in the digital era extends beyond formal legal equality to include equitable access to technological resources and digital infrastructure. While artificial intelligence has the potential to promote inclusive governance and efficient service delivery, unequal access to technology creates a digital divide that disproportionately affects marginalized communities. Those lacking

digital literacy, internet access, or technological resources are often excluded from essential services, reinforcing existing social and economic inequalities. As a result, social justice in the digital context requires not only non-discriminatory laws but also proactive measures to ensure digital inclusion.

Fairness, a core component of social justice, faces new challenges in algorithmic decision-making. AI systems are often perceived as neutral and objective; however, they frequently rely on historical data that may reflect systemic biases. When such biased data informs automated decisions, it can lead to discriminatory outcomes that undermine fairness and perpetuate social injustice. The lack of transparency and explainability in algorithmic processes further complicates accountability, making it difficult for individuals to challenge unjust decisions.

Artificial Intelligence and Human Rights Protection.

1. Right to Privacy and AI Surveillance

The right to privacy is significantly challenged by AI-enabled surveillance technologies such as facial recognition, biometric identification, and predictive analytics. These systems collect, process, and analyze vast amounts of personal data, often without informed consent or adequate oversight. Mass surveillance practices threaten individual autonomy and chill freedom of expression and association. The use of AI in public surveillance also risks disproportionate interference with privacy, particularly when deployed without clear legal authorization, necessity, and proportionality. Courts and human rights bodies increasingly emphasize that AI-based surveillance must be strictly regulated to prevent arbitrary intrusion into private life.

2. Data Protection and Algorithmic Processing

Data protection is closely linked to privacy and is a cornerstone of human rights protection in the digital age. AI systems rely heavily on large datasets, including sensitive personal information such as health data, criminal records, and biometric identifiers. The absence of robust data governance frameworks can lead to misuse, unauthorized sharing, and data breaches. Automated profiling and data aggregation further increase the risk of discrimination and exclusion. Effective data protection laws must ensure lawful data collection, purpose limitation, accuracy, and security, while granting individuals rights such as access, correction, and erasure of their data.

3. Freedom and Autonomy in Automated Decision-Making

Artificial intelligence can indirectly restrict personal freedom by influencing or determining outcomes without human intervention. Automated systems used in policing, migration control, and social welfare can affect an individual's freedom of movement, livelihood, and social participation. When such systems operate without transparency or meaningful human

oversight, individuals may be subjected to decisions they cannot understand or challenge. This undermines personal autonomy and the principle that human beings should remain central to decisions affecting their lives.

4. Due Process and Procedural Fairness

Due process is a fundamental legal guarantee that ensures fair procedures, the right to be heard, and access to effective remedies. Automated decision-making poses significant challenges to due process, particularly when algorithmic logic is opaque or protected as proprietary information. Individuals affected by AI-driven decisions often lack explanations for adverse outcomes, making it difficult to contest or appeal them.

Challenges to Social Justice Posed By Ai Technologies

1. Digital Divide and Unequal Access

AI rapid integration into society has deepened the digital divide, defined as the gap between those who have meaningful access to digital technologies and those who do not. AI depends on robust digital infrastructure, affordable connectivity, and digital literacy to be truly beneficial. However, millions especially in low-income countries and underserved communities lack consistent internet access or the devices necessary to interact with AI technologies. This exclusion threatens to leave already vulnerable populations further behind in education, employment, legal services, and economic opportunities.

2. Exclusion and Algorithmic Bias

AI systems are often assumed to be neutral, but bias is embedded in their data and design. Algorithms trained on historical or unrepresentative datasets tend to reproduce social prejudices related to race, socio-economic status, gender, and caste, resulting in discriminatory outcomes in hiring, criminal justice risk assessments, healthcare diagnostics, credit scoring, and more.

3. Power Imbalances and Control of Technology

AI development and deployment are concentrated among a small group of tech corporations and wealthy nations. This concentration creates power imbalances whereby major decisions about data use, infrastructure, and innovation priorities are controlled by entities that may not represent or prioritize the interests of marginalized communities. These imbalances extend to decision-making power over data governance, ethical standards, and access to economic benefits, reinforcing systemic inequalities and limiting the ability of underrepresented groups to shape AI in ways that reflect their needs, values, and rights.

4. Social and Economic Consequences

People without digital skills fall behind in job markets and civic participation. AI systems perpetuate historic inequities unless properly regulated; marginalized groups face disproportionate risks without transparency, redress mechanisms, or accountability structures.

Conclusion

Artificial intelligence stands at the intersection of technology and law, offering unprecedented opportunities to enhance governance, efficiency, and access to justice in the digital era. However, its unregulated or inequitable use poses serious challenges to social justice and human dignity. Issues such as algorithmic bias, lack of transparency, exclusion, and concentration of technological power threaten foundational legal and ethical principles.

This study highlights that the true challenge lies not in technological advancement itself, but in ensuring that AI development aligns with constitutional values, human rights, and the principles of equality and fairness. Law plays a pivotal role in mediating this relationship by providing normative guidance and enforceable safeguards. Ultimately, redefining social justice in the digital era requires reaffirming the centrality of human dignity and ensuring that artificial intelligence serves humanity as a tool for inclusive and equitable social progress rather than as a mechanism of control or exclusion.

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