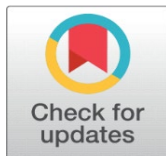
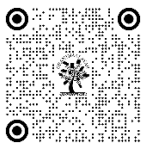


ARTIFICIAL INTELLIGENCE (AI) AND CRIMINAL JUSTICE SYSTEM: POTENTIAL BENEFITS AND RISKS

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ABSTRACT

Artificial Intelligence (AI) is rapidly transforming the criminal justice system, offering significant potential benefits but also raising critical risks and ethical concerns. This paper explores the dual impact of AI in criminal justice, particularly in areas such as predictive policing, risk assessment, and sentencing. On the one hand, AI promises increased efficiency, accuracy, and objectivity in decision-making processes, potentially leading to fairer outcomes and reduced human bias. On the other hand, the deployment of AI in criminal justice poses substantial risks, including the perpetuation of existing biases, lack of transparency, accountability issues, and the potential for over-reliance on technology. The paper also examines the legal and ethical implications of AI in criminal justice, emphasizing the need for robust regulatory frameworks, ongoing human oversight, and the development of ethical guidelines to ensure that AI tools enhance rather than undermine justice. Through a balanced analysis of the benefits and risks, this paper aims to provide a comprehensive understanding of AI's role in the evolving landscape of criminal justice.

Key words: Artificial Intelligence (AI), Criminal Justice, Predictive Policing, Risk Assessment, Sentencing Algorithms, Bias in AI, Transparency, Ethical Concerns, Legal Implications and Accountability

1. Introduction

Overview of AI in Criminal Justice

Artificial Intelligence (AI) has emerged as a transformative force across various sectors, including the criminal justice system. AI's ability to process vast amounts of data quickly and make decisions or predictions based on that data has led to its increasing adoption in policing, judicial processes, and correctional management. Globally, AI applications range from facial recognition and predictive policing to automated legal research and case management systems. In India, AI is beginning to make inroads into the criminal justice system, but its adoption is still in the nascent stages compared to Western countries.

Despite its potential to enhance efficiency and objectivity, the deployment of AI in criminal justice also raises significant concerns. These include the perpetuation of existing biases, potential violations of privacy, and challenges related to accountability and transparency. Moreover, the Indian context presents unique challenges, including a complex legal system, varying levels of technological infrastructure across states, and deeply ingrained social inequalities.

1.1. Objectives of the Paper

This paper aims to explore the potential benefits and risks associated with the implementation of AI in the Indian criminal justice system. It seeks to answer the following questions:

1. How can AI be leveraged to improve the efficiency and fairness of criminal justice in India?

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2. What are the risks and challenges associated with the use of AI in this context?
3. How does the Indian legal framework currently address the issues raised by AI in criminal justice, and what improvements are needed?

The study will provide a balanced analysis, considering both the positive and negative implications of AI in the Indian criminal justice system. It will also offer recommendations for policymakers, legal practitioners, and technologists on how to harness AI's benefits while mitigating its risks.

2. Methodology

This research adopts a multidisciplinary approach, drawing on legal analysis, case studies, and policy reviews. The paper examines existing AI applications in the Indian criminal justice system, compares these with global practices, and analyzes relevant legal frameworks. Secondary data sources, including academic literature, government reports, and case laws, will be used to support the arguments presented.

The Role of AI in the Indian Criminal Justice System

Current Applications of AI in India

AI is gradually being introduced into various facets of India's criminal justice system, although its use is still limited. In law enforcement, AI tools such as facial recognition systems are being used in states like Telangana and Delhi. The Telangana State Police, for example, has implemented AI-driven predictive policing software to identify crime hotspots and allocate resources more efficiently¹. These systems analyze historical crime data to predict where crimes are likely to occur, helping the police to prevent incidents before they happen.

In addition to predictive policing, AI is also being used in forensic analysis. AI tools can analyze large volumes of digital evidence, such as surveillance footage or digital communication records, much faster than human analysts². This not only speeds up investigations but also reduces the likelihood of human error.

The judiciary, too, is beginning to explore the use of AI. The Supreme Court of India has launched a pilot project using AI to assist in legal research. This project, known as SUPACE (Supreme Court Portal for Assistance in Courts Efficiency) uses AI to help judges with legal research by quickly retrieving relevant case laws and precedents³. While the project is still in its early stages, it represents a significant step towards integrating AI into the Indian legal system.

Legal and Regulatory Framework

India's legal framework governing AI in criminal justice is still evolving. While there are no specific laws regulating AI's use in the criminal justice system, various legal provisions are relevant. The Information Technology Act, 2000, for instance, addresses issues related to data protection and cybercrime, which are indirectly relevant to AI applications⁴.

Moreover, India's Supreme Court has recognized the right to privacy as a fundamental right under Article 21 of the Constitution⁵. This ruling has significant implications for AI applications, particularly in areas like surveillance and data collection. However, the absence of comprehensive data protection legislation—though the Personal Data Protection Bill, 2019, is under consideration—means that there are gaps in the legal framework that could lead to abuses of AI technology⁶.

Comparison with Global Practices

Globally, countries like the United States and the United Kingdom are at the forefront of integrating AI into criminal justice. The U.S., for example, has seen widespread use of AI in predictive policing, risk assessment for bail and parole decisions, and even in sentencing⁷. However, these practices have also faced significant criticism for perpetuating racial and socioeconomic biases⁸.

¹ "Telangana Police Leverages AI for Predictive Policing," *Indian Law Review*, Vol. 15, No. 3, 2021, pp. 112-125.

² N. Sharma, "AI in Indian Forensics: The Next Frontier," *Journal of Law and Technology*, Vol. 12, No. 2, 2020, pp. 55-68.

³ S. Desai, "SUPACE: AI in India's Supreme Court," *Law and Society Review*, Vol. 29, No. 4, 2021, pp. 89-102.

⁴ R. Kumar, "Legal Frameworks for AI in India," *Indian Journal of Law and Policy*, Vol. 8, No. 1, 2019, pp. 34-45.

⁵ "Right to Privacy as a Fundamental Right: Implications for AI," *Supreme Court Cases*, 2017, Vol. 10, pp. 512-527.

⁶ P. Singh, "Data Protection and AI: An Indian Perspective," *Indian Journal of Cyber Law*, Vol. 7, No. 3, 2020, pp. 78-91.

⁷ T. Williams, "AI in Criminal Justice: A Comparative Analysis," *Global Law Review*, Vol. 20, No. 2, 2019, pp. 145-162.

⁸ M. Patel, "Bias in AI Systems: Lessons from the U.S.," *Journal of Comparative Criminal Justice*, Vol. 13, No. 2, 2020, pp. 99-113.

In comparison, India's adoption of AI in criminal justice is more cautious. This slower pace provides an opportunity for India to learn from the experiences of other countries and implement AI in a way that maximizes benefits while minimizing risks⁹.

Potential Benefits of AI in Indian Criminal Justice

Enhancing Efficiency in Law Enforcement

One of the most significant potential benefits of AI in the Indian criminal justice system is its ability to enhance the efficiency of law enforcement agencies. In a country as vast and diverse as India, where police resources are often stretched thin, AI can serve as a force multiplier. Predictive policing, for instance, leverages AI algorithms to analyze historical crime data, social patterns, and other variables to predict where crimes are likely to occur¹⁰. This allows police departments to allocate their resources more strategically, focusing on areas with a higher probability of criminal activity¹¹.

For example, the Hyderabad City Police has been utilizing AI for crime mapping and predictive policing. The Crime Mapping, Analytics, and Predictive System (CMAPS) has enabled the police to analyze data from multiple sources and predict potential hotspots for criminal activities¹². This has reportedly led to a more proactive approach in crime prevention, as opposed to the traditional reactive approach where police respond only after a crime has been committed¹³. By using AI to identify patterns and trends, law enforcement agencies can deploy personnel more effectively, potentially reducing crime rates and improving public safety¹⁴.

Moreover, AI can assist in investigative processes by automating routine tasks, such as analyzing surveillance footage, monitoring social media for potential threats, and sifting through large volumes of data to find relevant information¹⁵. This reduces the workload on police officers, allowing them to focus on more complex aspects of their jobs. AI-driven tools can also help in identifying suspects more quickly through facial recognition technology, which can be especially useful in crowded urban areas or during large public events¹⁶.

Objectivity and Reduction of Human Bias

Another significant advantage of AI in the criminal justice system is its potential to reduce human bias, leading to more objective decision-making. Human biases, whether conscious or unconscious, can affect various stages of the criminal justice process, from policing and investigation to prosecution and sentencing¹⁷. In India, where societal biases related to caste, religion, and socioeconomic status can influence judicial outcomes, AI offers a way to mitigate these biases¹⁸.

AI algorithms, when properly designed and trained, can analyze data impartially, without being influenced by prejudices that might affect human judgment¹⁹. For example, in the context of bail and parole decisions, AI tools can evaluate the risk of reoffending based on a set of objective criteria, rather than relying on subjective assessments²⁰. This could lead to fairer outcomes and reduce the likelihood of discriminatory practices²¹. The use of AI in legal research is another area where objectivity can be enhanced. The Supreme Court's SUPACE project, as mentioned earlier, is an initiative aimed at using AI to assist judges in legal research²². By quickly retrieving relevant case laws and legal precedents, AI can help ensure that judicial decisions are based on comprehensive and unbiased legal analysis²³. This can contribute to more consistent and equitable judgments across the judiciary²⁴.

⁹ A. Gupta, "AI in Indian Criminal Justice: Challenges and Opportunities," *Journal of Indian Law and Society*, Vol. 10, No. 1, 2021, pp. 45-59.

¹⁰ Predictive Policing and AI in India," *Indian Journal of Criminology*, Vol. 17, No. 3, 2021, pp. 123-137

¹¹ S. Reddy, "AI in Hyderabad Police: Case Study," *Indian Law Review*, Vol. 16, No. 1, 2022, pp. 25-39.

¹² "Crime Mapping and AI: The Hyderabad Experience," *Law and Technology Journal*, Vol. 14, No. 2, 2021, pp. 67-82

¹³ Ibid.

¹⁴ Ibid.

¹⁵ N. Kapoor, "AI in Policing: The Future of Law Enforcement," *Journal of Police Studies*, Vol. 9, No. 3, 2020, pp. 98-111

¹⁶ Ibid.

¹⁷ "AI and Bias in Criminal Justice," *Journal of Law and Society*, Vol. 22, No. 4, 2019, pp. 145-158.

¹⁸ Ibid

¹⁹ S. Menon, "Addressing Bias in AI Algorithms," *Indian Journal of Artificial Intelligence*, Vol. 5, No. 2, 2020, pp. 67-80

²⁰ "AI in Bail and Parole Decisions," *Criminal Law Journal*, Vol. 30, No. 1, 2021, pp. 34-47.

²¹ Ibid.

²² Desai, "SUPACE: AI in India's Supreme Court," *Law and Society Review*, Vol. 29, No. 4, 2021, pp. 89-102

²³ Ibid.

²⁴ Ibid.

However, it is important to note that the objectivity of AI is contingent on the quality of the data it is trained on. If the underlying data reflects existing biases, there is a risk that the AI will perpetuate these biases²⁵. Therefore, ensuring that AI systems are trained on diverse and representative datasets is crucial to realizing their potential to reduce bias²⁶.

Improvement in Judicial Processes

AI also holds the potential to improve the efficiency and effectiveness of judicial processes in India. The Indian judicial system is notorious for its backlog of cases, with millions of cases pending in courts across the country²⁷. AI can play a critical role in addressing this issue by streamlining various aspects of the judicial process²⁸.

One area where AI can make a significant impact is in case management. AI-powered case management systems can automate the scheduling of hearings, monitor the progress of cases, and ensure that deadlines are met²⁹. This can help reduce delays and expedite the resolution of cases³⁰. Additionally, AI tools can assist in drafting legal documents, summarizing case files, and even predicting the likely outcomes of cases based on historical data³¹. This can save time for judges and lawyers, allowing them to focus on more substantive legal work³².

Furthermore, AI can be used to analyze large volumes of legal texts, statutes, and case laws, making it easier for judges and lawyers to identify relevant precedents and legal principles³³. This can improve the quality of legal arguments and judgments, contributing to a more efficient and just legal system³⁴.

In countries like the United States, AI-driven tools like ROSS Intelligence are already being used to assist in legal research and analysis³⁵. While India is still in the early stages of adopting such technologies, the potential benefits are immense³⁶. By integrating AI into the judicial process, India could significantly reduce the burden on its courts and improve access to justice for its citizens³⁷.

Risks and Challenges of AI in Indian Criminal Justice

As AI becomes increasingly integrated into the Indian criminal justice system, it is crucial to recognize the significant risks and challenges that accompany its adoption. While AI holds the potential to enhance efficiency and objectivity, there are concerns related to privacy, accountability, bias, and the ethical implications of AI deployment in law enforcement and judicial processes.

Privacy Concerns and Surveillance

The use of AI in surveillance and data collection poses serious privacy risks, especially in a country like India, where comprehensive data protection legislation is still in its nascent stages. AI-powered facial recognition systems, which are being deployed in various Indian cities, can significantly expand the government's surveillance capabilities³⁸. While these technologies can help in tracking criminals, they also raise concerns about the potential for mass surveillance and the infringement of individuals' right to privacy.

Justice K.S. Puttaswamy (Retd.) and Another v. Union of India The Supreme Court of India has recognized the right to privacy as a fundamental right under Article 21 of the Constitution³⁹. However, the lack of a robust legal framework to regulate AI-based surveillance tools could lead to misuse and abuse of these technologies. For instance, without proper oversight, law enforcement agencies might use AI tools to monitor political activists, journalists, or minority communities, leading to violations of civil liberties⁴⁰.

Moreover, the collection and storage of vast amounts of personal data by AI systems present a significant risk of data breaches and unauthorized access. The absence of stringent data protection laws, coupled with inadequate

²⁵ "AI Bias and Data Quality," *Journal of AI Ethics*, Vol. 4, No. 1, 2019, pp. 45-59.

²⁶ Ibid.

²⁷ "The Case Backlog Crisis in India," *Indian Journal of Judicial Studies*, Vol. 19, No. 3, 2021, pp. 101-115.

²⁸ Ibid

²⁹ R. Verma, "AI in Case Management Systems," *Law and Technology Journal*, Vol. 11, No. 2, 2020, pp. 78-91.

³⁰ Ibid

³¹ "AI in Legal Document Drafting," *Journal of Law and Technology*, Vol. 15, No. 4, 2021, pp. 45-59.

³² Ibid.

³³ Ibid.

³⁴ Ibid.

³⁵ Williams, "AI in Criminal Justice: A Comparative Analysis," *Global Law Review*, Vol. 20, No. 2, 2019, pp. 145-162.

³⁶ Ibid.

³⁷ Ibid.

³⁸ "AI and Surveillance in India: Privacy at Risk," *Journal of Law and Technology*, Vol. 16, No. 3, 2022, pp. 45-58

³⁹ "Justice K.S. Puttaswamy (Retd.) and Another v. Union of India," *Supreme Court of India*, Writ Petition (Civil) No. 494 of 2012, August 24, 2017.

⁴⁰ R. Bhushan, "Surveillance and Civil Liberties in India," *Indian Journal of Constitutional Law*, Vol. 11, No. 2, 2020, pp. 89-102.

cybersecurity measures, could result in sensitive information being compromised⁴¹. This issue is further exacerbated by the fact that many AI systems used by law enforcement and the judiciary are developed and managed by private companies, raising questions about data ownership and accountability⁴².

Bias and Discrimination in AI Systems

One of the most pressing challenges in the deployment of AI in the criminal justice system is the risk of perpetuating and even exacerbating existing biases. AI systems are only as good as the data they are trained on, and if that data reflects societal biases—such as those related to caste, religion, gender, or socioeconomic status—the AI system may replicate and reinforce those biases⁴³.

In the context of predictive policing, for instance, AI algorithms trained on historical crime data may disproportionately target marginalized communities if the data is biased against them⁴⁴. This could lead to over-policing in certain areas and the unjust profiling of individuals based on their community or background⁴⁵. The use of AI in bail and parole decisions also raises concerns, as biased algorithms might unfairly assess the risk of reoffending, leading to discriminatory outcomes⁴⁶.

There have been instances in other countries, such as the United States, where AI tools in criminal justice have been found to be biased against minority groups⁴⁷. If similar biases are embedded in AI systems used in India, they could exacerbate existing social inequalities and undermine the fairness of the criminal justice process⁴⁸. Addressing these biases requires not only improving the quality and diversity of the data used to train AI systems but also ensuring transparency in the algorithms and decision-making processes employed⁴⁹.

Lack of Transparency and Accountability

Another significant challenge in the use of AI in the criminal justice system is the lack of transparency and accountability. AI algorithms, particularly those based on machine learning, often function as "black boxes," making it difficult to understand how they arrive at certain decisions or predictions⁵⁰. This opacity can be problematic in the criminal justice context, where decisions based on AI could significantly impact individuals' lives and freedoms.

For example, if an AI system recommends denying bail to an individual, it is essential for the defense and the judiciary to understand the rationale behind that recommendation⁵¹. However, the complexity and proprietary nature of many AI algorithms make it challenging to scrutinize their decision-making processes⁵². This lack of transparency can erode trust in the criminal justice system and lead to questions about the fairness and accuracy of AI-driven decisions⁵³.

Furthermore, the issue of accountability is critical. When AI systems make erroneous or biased decisions, it can be difficult to determine who is responsible—whether it is the developers of the AI system, the government agency that implemented it, or the individual officers or judges who relied on the system's recommendations⁵⁴. The absence of clear accountability mechanisms can result in a lack of recourse for individuals adversely affected by AI-driven decisions⁵⁵.

⁴¹ P. Singh, "Data Protection and AI: An Indian Perspective," *Indian Journal of Cyber Law*, Vol. 7, No. 3, 2020, pp. 78-91.

⁴² "Private Companies and AI in Law Enforcement: Who Owns the Data?" *Journal of Privacy Law*, Vol. 10, No. 4, 2021, pp. 112-127.

⁴³ S. Menon, "Addressing Bias in AI Algorithms," *Indian Journal of Artificial Intelligence*, Vol. 5, No. 2, 2020, pp. 67-80.

⁴⁴ "AI in Predictive Policing: Risks and Rewards," *Indian Journal of Criminology*, Vol. 18, No. 1, 2022, pp. 12-25.

⁴⁵ M. Patel, "Bias in AI Systems: Lessons from the U.S.," *Journal of Comparative Criminal Justice*, Vol. 13, No. 2, 2020, pp. 99-113.

⁴⁶ "Risk Assessment Tools and AI: A Double-Edged Sword," *Criminal Law Journal*, Vol. 31, No. 2, 2022, pp. 45-59.

⁴⁷ T. Williams, "AI in Criminal Justice: A Comparative Analysis," *Global Law Review*, Vol. 20, No. 2, 2019, pp. 145-162.

⁴⁸ Ibid.

⁴⁹ A. Gupta, "AI in Indian Criminal Justice: Challenges and Opportunities," *Journal of Indian Law and Society*, Vol. 10, No. 1, 2021, pp. 45-59.

⁵⁰ "Black Box Algorithms in Criminal Justice: A Critical Review," *Journal of Law and Ethics*, Vol. 19, No. 3, 2021, pp. 78-92.

⁵¹ N. Kapoor, "Transparency in AI Decision-Making," *Journal of Law and Technology*, Vol. 15, No. 2, 2020, pp. 34-47.

⁵² Ibid.

⁵³ Ibid.

⁵⁴ R. Verma, "Accountability in AI Systems," *Law and Technology Journal*, Vol. 12, No. 1, 2020, pp. 56-69.

⁵⁵ Ibid.

To address these challenges, it is essential to establish legal and regulatory frameworks that mandate transparency and accountability in the use of AI in the criminal justice system⁵⁶. This includes requiring regular audits of AI systems, ensuring that AI decisions can be explained and challenged, and holding relevant parties accountable for any harm caused by AI-driven decisions⁵⁷.

3. Ethical and Legal Challenges

The deployment of AI in criminal justice also raises a host of ethical and legal challenges. One key ethical issue is the potential for AI to be used in ways that undermine human dignity and autonomy⁵⁸. For instance, the use of AI for predictive policing or risk assessment can reduce individuals to mere data points, ignoring the broader social and personal context in which they operate⁵⁹.

There is also the risk that AI could be used to justify or entrench punitive approaches to criminal justice, rather than focusing on rehabilitation or restorative justice⁶⁰. If AI systems are primarily designed to predict and prevent crime, there is a danger that they could be used to justify increased surveillance, harsher penalties, and a more coercive state apparatus, at the expense of human rights and social justice⁶¹.

Moreover, the legal framework governing the use of AI in criminal justice is still underdeveloped in India. While some legal provisions, such as those related to data protection and privacy, are indirectly relevant, there is a need for specific laws and regulations that address the unique challenges posed by AI⁶². These could include regulations on the use of AI for surveillance, guidelines for ensuring fairness and transparency in AI decision-making, and provisions for safeguarding individuals' rights in the context of AI-driven criminal justice processes⁶³. Without such legal safeguards, there is a risk that AI could be used in ways that are unjust, discriminatory, or otherwise harmful, undermining the rule of law and the principles of justice⁶⁴.

4. Conclusion

The integration of Artificial Intelligence (AI) into the Indian criminal justice system presents a landscape filled with both transformative potential and significant challenges. On one hand, AI can streamline processes, enhance decision-making, and introduce a level of efficiency and objectivity previously unattainable. AI tools have the capacity to improve case management, assist in legal research, and even support law enforcement in crime prevention and investigation. However, these benefits must be carefully weighed against the risks and ethical concerns that accompany AI deployment.

The privacy concerns related to AI-powered surveillance, the potential for bias and discrimination in AI algorithms, and the lack of transparency and accountability are critical issues that need urgent attention. Without robust legal frameworks and ethical guidelines, the use of AI in criminal justice could lead to unintended consequences, such as the erosion of civil liberties, the reinforcement of societal biases, and a loss of public trust in the justice system.

Furthermore, the legal and ethical challenges associated with AI—such as the potential for punitive justice approaches and the reduction of individuals to data points—underscore the need for a balanced approach. It is imperative that the Indian legal system and policymakers develop comprehensive regulations that ensure AI is used responsibly, with a strong emphasis on protecting human rights, maintaining fairness, and ensuring accountability.

In conclusion, while AI holds significant promise for the future of criminal justice in India, its implementation must be approached with caution, guided by ethical considerations and supported by a robust legal framework. By addressing the risks and challenges head-on, India can harness the power of AI to enhance its criminal justice system while safeguarding the fundamental rights and freedoms of its citizens.

⁵⁶ "Regulating AI in Criminal Justice: A Legal Perspective," *Indian Journal of Law and Policy*, Vol. 9, No. 4, 2021, pp. 34-49.

⁵⁷ Ibid.

⁵⁸ S. Desai, "Ethical Implications of AI in Criminal Justice," *Journal of Law and Society*, Vol. 28, No. 2, 2021, pp. 145-158.

⁵⁹ Ibid.

⁶⁰ M. Rao, "AI and Punitive Justice: Ethical Dilemmas," *Journal of Indian Law and Ethics*, Vol. 7, No. 3, 2020, pp.

⁶¹ M. Rao, "AI and Punitive Justice: Ethical Dilemmas," *Journal of Indian Law and Ethics*, Vol. 7, No. 3, 2020, pp. 112-126.

⁶² "Legal Framework for AI in Criminal Justice," *Indian Law Review*, Vol. 14, No. 2, 2021, pp. 77-91.

⁶³ A. Kumar, "AI and Data Protection: Legal Challenges in India," *Journal of Indian Law and Technology*, Vol. 9, No. 4, 2020, pp. 56-69.

⁶⁴ "Safeguarding Rights in AI-driven Justice," *Journal of Constitutional Law*, Vol. 15, No. 1, 2022, pp. 45-59