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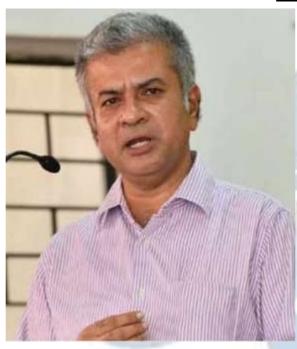
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WHITE BLACK LEGAL is an open access, peer-reviewed and refereed journal providededicated to express views on topical legal issues, thereby generating a cross current of ideas on emerging matters. This platform shall also ignite the initiative and desire of young law students to contribute in the field of law. The erudite response of legal luminaries shall be solicited to enable readers to explore challenges that lie before law makers, lawyers and the society at large, in the event of the ever changing social, economic and technological scenario.

With this thought, we hereby present to you

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"JUSTICE MEETS INNOVATION: THE EVOLUTION
OF AI IN LAW"

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ABSTRACT

The evolution of AI in law has transformed the legal landscape by enhancing efficiency, accuracy, and accessibility. Early applications focused on automating routine tasks like document review and legal research. Over time, AI has advanced to more complex tasks such as predictive analytics, contract analysis, and legal decision support. Machine learning and natural language processing technologies now enable AI to assist in case law analysis, risk assessment, and even drafting legal documents. While AI improves legal practice, it also raises ethical, privacy, and regulatory concerns, prompting ongoing discussions about its role in the future of law and justice.

INTRODUCTION

The integration of Artificial Intelligence (AI) into the field of law has significantly reshaped how legal professionals work, enhancing both efficiency and accuracy. The evolution of AI in law can be traced back to its early applications in automating routine, time-consuming tasks such as document review, legal research, and case management. Initially, these technologies were used primarily to handle large volumes of data, providing legal professionals with tools to process and analyse information faster and more accurately than manual methods. Over time, however, AI has expanded beyond simple automation into more sophisticated applications.

The current landscape sees AI systems capable of performing complex legal tasks. Machine learning algorithms and natural language processing (NLP) have been applied to contract analysis, where AI systems can identify potential risks or areas of concern within legal documents. Predictive analytics is another significant area where AI is making strides, helping law firms predict case outcomes, assess risks, and provide strategic insights for litigation and

negotiation. AI-powered legal research tools now enable lawyers to quickly find relevant case law, statutes, and regulations, improving the speed and quality of legal advice.

Additionally, AI's role in law extends to enhancing access to justice. Automated systems like chat bots and virtual assistants are increasingly used to provide preliminary legal advice, particularly in areas such as family law or small claims, thus lowering the cost of legal services and improving access for individuals who cannot afford traditional legal representation.

Despite its potential, the evolution of AI in law raises important ethical and regulatory questions, such as the accountability of AI systems, privacy concerns, and the potential for bias in automated decision-making. As AI continues to evolve, it is crucial for legal professionals and lawmakers to address these issues to ensure that AI contributes positively to the legal profession and society as a whole.

BACKGROUND: Understanding the "Bhartiya Nagrik Suraksha Sanhita"

The "Bhartiya Nagrik Suraksha Sanhita" is a proposed framework for enhancing the security of Indian citizens by providing a legal structure for tackling the evolving nature of threats in the digital age. The code aims to offer solutions for maintaining public order, preventing cybercrimes, and securing individuals from various forms of harm, such as physical violence, terrorism, and digital surveillance. The core objectives of the code include:

- 1. Ensuring Citizen Privacy and Safety: This includes regulating the use of AI technologies in surveillance and law enforcement to prevent misuse of power and to protect citizens from intrusive or unlawful surveillance.
- **2. Establishing Accountability Mechanisms**: AI-powered systems used in law enforcement and the judicial process must be accountable to citizens and the legal system, ensuring that their rights are not violated.
- **3. Preventing Discrimination and Bias**: The code acknowledges the potential for AI systems to be biased and discriminatory, particularly in policing and judicial practices, and aims to establish clear measures for addressing these issues.

The proposed law represents an attempt to modernize India's legal framework in response to the challenges presented by the digital revolution and AI technologies, creating a balance between technological advancement and individual rights.

Artificial Intelligence and Its Role in Law Enforcement

AI's influence on law enforcement in India and globally is significant, bringing both opportunities and challenges. From predictive policing to surveillance and automated legal assistance, AI is reshaping how the criminal justice system operates. The most prominent AI applications in law enforcement can be categorized as follows:

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1. AI in Surveillance: AI technologies, particularly facial recognition systems and data analytics tools, are increasingly being employed by law enforcement agencies to monitor public spaces, identify suspects, and detect criminal activities. The Indian government has implemented AI-powered surveillance systems in several cities, leveraging cameras and AI to predict crime hotspots and respond more effectively to public security threats.

Example: In 2020, the Delhi Police launched a facial recognition system aimed at identifying individuals involved in criminal activities. This system analyzes video footage from CCTV cameras in real-time, allowing law enforcement to track potential suspects. While this technology can enhance security, it raises serious concerns about privacy, data misuse, and the potential for mass surveillance.

- 2. Predictive Policing: Predictive policing uses machine learning algorithms to analyze historical crime data and forecast where future crimes are likely to occur. AI models analyze patterns, trends, and correlations in data, such as crime types, locations, and times, to predict criminal activities and allocate resources more efficiently.
 - Case Study: In India, the Bengaluru Police have adopted predictive policing models to forecast thefts and violent crimes. These models use data from various sources, including past crime reports and socio-economic data, to predict where crimes are more likely to occur. While these systems can lead to more proactive policing, they also run the risk of reinforcing existing biases in the data, leading to discriminatory policing practices against certain communities.
- **3. AI** in Legal Assistance and Justice Delivery: AI tools are also being used to assist lawyers, judges, and legal professionals by analyzing legal documents, predicting case outcomes, and drafting legal briefs. By leveraging natural language processing (NLP) and machine learning, AI can help streamline legal processes, reduce workload, and enhance the efficiency of courts.

Example: India's Supreme Court has explored the use of AI to assist in case law research and to automate routine tasks, such as case categorisation and judgment writing. AI has the potential to reduce delays in the judicial process but raises concerns

about the transparency of decisions made by AI-powered systems and the role of human judgment in ensuring fairness.

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Evolution of Artificial Intelligence

AI has evolved significantly over the years, progressing through several phases of development and application. From the early days of rule-based systems to the current era of machine learning and deep learning, AI technologies have demonstrated remarkable advancements.

Early Stages of AI (1950s-1980s)

In the early stages, AI was primarily focused on symbolic reasoning and rule-based systems. These systems operated on explicit instructions programmed by human experts. In this phase, AI was mostly theoretical, with limited real-world applications.

The Rise of Machine Learning (1990s-2000s)

The 1990s marked a shift towards machine learning, where algorithms could learn from data without explicit programming. This change laid the foundation for AI to handle more complex tasks, such as language processing, facial recognition, and decision-making systems.

Deep Learning and Big Data (2010s-present)

The recent advancements in AI, particularly in deep learning, have led to breakthroughs in areas such as natural language processing, computer vision, and autonomous systems. With the advent of big data, AI systems can now process and analyze massive datasets, providing more accurate and reliable results.

Current Applications of AI in Public Safety

AI technologies are increasingly being adopted across the world in various sectors, including law enforcement and public safety. In the context of **Bhartiya Nagrik Suraksha Sanhita**, AI can play a critical role in improving public security through the following applications:

Predictive Policing

AI-driven predictive policing systems use data analytics to predict where and when crimes are likely to occur. By analyzing historical crime data, AI can help law enforcement agencies allocate resources more efficiently, preventing crime before it happens. In the context of BNSS,

AI-based predictive policing can be used to anticipate criminal activities and strengthen preventive measures.

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Facial Recognition and Surveillance Systems

Facial recognition technology has emerged as a powerful tool for identifying individuals in public spaces, enhancing security, and supporting criminal investigations. In conjunction with surveillance cameras, AI can analyze real-time footage and match it against databases of known criminals or suspects. In India, this technology could be used to ensure compliance with the BNSS framework, especially in high-risk areas.

AI in Cybersecurity

Cybercrime has become a major challenge for law enforcement globally, and AI is being used to combat cyber threats. Machine learning algorithms can detect unusual patterns in online activity, identify potential breaches, and even predict cyber-attacks before they occur. For the **BNSS**, AI-enhanced cyber security measures are essential to protect citizens from digital threats.

Natural Language Processing for Legal Texts

AI's natural language processing (NLP) capabilities can also be used to analyze and interpret legal texts, helping law enforcement agencies interpret complex legal frameworks like the **BNSS**. NLP tools can assist in automating tasks such as contract review, legal research, and policy analysis, thus enhancing the efficiency of legal processes.

AI and the Bhartiya Nagrik Suraksha Sanhita

AI's role in the **Bhartiya Nagrik Suraksha Sanhita** can be seen in various aspects of its implementation. From improving law enforcement capabilities to enhancing citizen security, AI can complement the objectives of the BNSS in the following ways:

Enhancing Law Enforcement Efficiency

AI can assist law enforcement agencies in managing large volumes of data, such as criminal records, surveillance footage, and public complaints. Machine learning models can identify patterns, highlight suspicious activities, and provide actionable insights. AI tools can help investigators access relevant information more quickly, reducing response times and improving the overall effectiveness of the police force.

Real-Time Crime Monitoring and Incident Response

AI-powered monitoring systems, combined with IoT (Internet of Things) sensors, can provide real-time insights into potential criminal activities. By monitoring public spaces, AI can trigger alerts if unusual activities, such as violent crime or public disturbances, are detected. This can enable faster response times and improve coordination among law enforcement agencies.

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Improving Justice Delivery

AI can enhance the delivery of justice by streamlining legal processes, reducing backlogs, and improving case management. Automated tools can help identify relevant legal precedents, expedite trial proceedings, and assist judges in decision-making. In the context of BNSS, AI can make the legal system more accessible, transparent, and efficient.

Roadmap for Integrating AI into the BNSS

To effectively integrate AI into the **Bhartiya Nagrik Suraksha Sanhita**, several steps need to be taken:

Development of AI Guidelines and Policies

The government must develop clear guidelines for the ethical use of AI in law enforcement and public safety. These guidelines should include standards for transparency, accountability, and citizen privacy.

Investment in AI Research and Training

To maximize the potential of AI, law enforcement agencies must invest in research, training, and development of AI capabilities. Officers should be equipped with the knowledge and tools to use AI technologies effectively while understanding the ethical implications.

Collaboration with Tech Companies and Startups

The government should collaborate with AI research organizations, tech companies, and startups to develop tailored solutions for law enforcement. This collaboration can lead to the development of AI tools specifically designed to address the unique challenges of India's security landscape.

The Legal and Ethical Challenges of AI in the Context of the Bhartiya Nagrik Suraksha Sanhita While AI offers significant advantages in law enforcement and justice delivery, its integration into the legal system presents several ethical, legal, and social challenges. These challenges are

particularly relevant in the context of the "Bhartiya Nagrik Suraksha Sanhita," which seeks to balance the protection of citizens with the increasing use of AI technologies in security and justice systems.

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1. Privacy Violations and Data Protection:

The increasing use of AI in surveillance and law enforcement raises critical concerns about citizens' privacy rights. In India, the right to privacy is constitutionally protected under Article 21, yet AI-driven surveillance systems may infringe on this right if not regulated carefully. Facial recognition and biometric data collection, for instance, raise concerns about the scope and accuracy of data being collected, as well as the potential for misuse.

Example: The Delhi Police's use of facial recognition technology has been controversial, with many civil rights groups arguing that the system is a violation of privacy and could lead to wrongful identification. The lack of clear guidelines on data retention and usage further exacerbates concerns regarding privacy violations.

In the context of the "Bhartiya Nagrik Suraksha Sanhita," there is a need to establish clear rules governing the collection, storage, and use of personal data. Citizens should have the right to be informed about data collection practices, the ability to challenge wrongful data usage, and protection from unauthorized surveillance.

2. Bias and Discrimination in AI Systems:

AI systems, if not properly designed or monitored, can perpetuate existing biases and lead to discriminatory practices. The data used to train AI models often reflects societal biases, which can then be reinforced by AI's decision-making processes. In law enforcement, this can result in disproportionate targeting of specific communities based on race, religion, or socioeconomic status.

Example: Studies have shown that facial recognition systems, including those deployed by police in the United States and other countries, are less accurate in identifying individuals with darker skin tones, women, and people from marginalized communities. If these systems are deployed in India without proper oversight, they could exacerbate existing societal inequalities. The "Bhartiya Nagrik Suraksha Sanhita" must include provisions for mitigating bias in AI systems. This can involve regular audits of AI models, diversity in training datasets, and ensuring that AI technologies are used in ways that do not disproportionately affect marginalized groups.

3. Accountability and Transparency:

AI systems often operate as "black boxes," making decisions without human intervention or clear understanding of how those decisions are made. This lack of transparency poses a significant challenge when it comes to accountability in the legal system. Citizens must have the ability to understand, challenge, and appeal decisions made by AI systems, especially when those decisions impact their rights.

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Example: In the case of automated sentencing or parole decisions, AI systems could determine the length of prison sentences or the likelihood of recidivism without fully explaining how the decision was reached. If these systems are not transparent, individuals may be deprived of a fair trial or an opportunity to contest the decision.

To address this, the "Bhartiya Nagrik Suraksha Sanhita" must incorporate transparency and accountability measures for AI systems used in law enforcement and justice. This could include requirements for explaining AI decisions, providing avenues for contesting automated outcomes, and ensuring that humans remain involved in critical decision-making processes.

4. Security Risks:

AI systems are not immune to cyber attacks or hacking. As AI is increasingly used for security purposes, such as surveillance or data analysis, the integrity of these systems becomes crucial. A breach in an AI-powered system could lead to the exposure of sensitive citizen data, disruption of security measures, or even manipulation of AI decisions.

Example: In 2019, a major data breach occurred when hackers gained access to AI-powered surveillance systems in various countries, compromising the personal data of millions of individuals. In India, the integration of AI in security systems raises concerns about the vulnerability of these technologies to cyber attacks and the potential for mass data leaks.

The "Bhartiya Nagrik Suraksha Sanhita" must include provisions for securing AI systems from cyber threats and ensuring that these technologies are resilient to hacking or manipulation. This includes implementing strong encryption, secure data storage practices, and regular cyber security audits.

AI and Human Rights under the Bhartiya Nagrik Suraksha Sanhita

The "Bhartiya Nagrik Suraksha Sanhita" must align with international human rights principles to ensure that AI is used in a manner consistent with the protection of fundamental rights. These principles include the right to privacy, the right to equality, and the right to a fair trial.

1. Right to Privacy:

AI systems must be carefully regulated to ensure that they do not violate citizens' right to privacy. In particular, surveillance technologies, such as facial recognition, must be subject to strict oversight and should only be used for legitimate purposes, with citizens' consent.

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Recommendation: The "Bhartiya Nagrik Suraksha Sanhita" should include clear guidelines on how AI technologies can be used in surveillance, with emphasis on the necessity of obtaining informed consent and ensuring that personal data is not misused.

2. Right to Equality:

AI systems must be designed and implemented in a way that ensures equality for all citizens, regardless of their social, economic, or demographic status. AI should not be used to discriminate against any group, whether on the basis of gender, caste, religion, or any other characteristic.

Recommendation: The "Bhartiya Nagrik Suraksha Sanhita" should mandate that AI systems undergo regular bias assessments, and that there be legal mechanisms in place to challenge discriminatory AI practices.

3. Right to a Fair Trial:

AI technologies used in the judicial system must be transparent and subject to human oversight. Decisions made by AI systems, especially in areas such as sentencing or parole, should not undermine the right to a fair trial.

Recommendations for Legal Reform in Response to AI

Given the ethical and legal challenges posed by AI, the following recommendations are made for the reform of the "Bhartiya Nagrik Suraksha Sanhita":

- 1. **Establish Clear Guidelines for AI Usage in Law Enforcement**: Clear rules and regulations must be set for the deployment of AI technologies in law enforcement, ensuring that their use respects privacy and human rights.
- Mandate Transparency and Accountability: All AI systems used in law enforcement
 and the justice system should be subject to transparency standards, including detailed
 explanations of how decisions are made and mechanisms for contesting automated
 decisions.

3. **Strengthen Data Protection Laws**: Comprehensive data protection legislation must be enacted to safeguard citizens' personal data from misuse and ensure that AI systems comply with strict data privacy standards.

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- 4. **Promote Bias-Free AI Development**: AI systems must be regularly audited for bias, with steps taken to ensure that training data is diverse and inclusive. This will help ensure fairness and prevent discriminatory practices in policing and justice.
- 5. Enhance Public Awareness and Engagement: Public consultations and educational campaigns should be launched to ensure that citizens are aware of their rights in relation to AI technologies, and that their concerns are taken into account during the development of AI laws and policies

CONCLUSION

In conclusion, the integration of Artificial Intelligence (AI) into the **Bhartiya Nagrik Suraksha Sanhita** (BNSS) presents a transformative opportunity to enhance public safety, law enforcement, and justice delivery in India. AI's capabilities in predictive policing, facial recognition, cyber security, and real-time crime monitoring can significantly improve the efficiency and responsiveness of security agencies, aligning with the BNSS's goals of protecting citizens and maintaining law and order. However, this integration must be approached with caution, addressing key challenges such as data privacy, algorithmic bias, and ethical concerns surrounding surveillance. Ensuring transparency, accountability, and fairness in the use of AI is essential to avoid exacerbating existing social inequalities or infringing on fundamental rights. The development of clear guidelines, regulatory frameworks, and ongoing investment in AI research and training for law enforcement is crucial to harness AI's potential responsibly. By striking a balance between technological innovation and human rights protection, AI can play a pivotal role in advancing the objectives of the **Bhartiya Nagrik Suraksha Sanhita**, ultimately fostering a safer, more secure, and just society for all citizens.

REFERENCES

Books and Reports

- 1. **Artificial Intelligence: A Guide for Thinking Humans** by Melanie Mitchell (2019)
- 2. **Artificial Intelligence and the Future of Crime** by Emma P. King (2021)
- 3. **AI in Law Enforcement: Ethical and Legal Implications** by Peter J. K. Shepherd (2020)

4. AI and Public Safety: The Role of Artificial Intelligence in Modern Law Enforcement by Paul J. Wexler (2022)

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Research Papers and Journal Articles

- "Artificial Intelligence in Law Enforcement: Current Applications and Future Potential" by M. Mahalik, Journal of Technology and Society (2021)
- 2. "The Role of Artificial Intelligence in Crime Prevention: A Global Perspective",
- 3. "AI Ethics and Governance: The Legal Framework for AI in India", Indian Journal of Law and Technology (2022)
- 4. "Cybersecurity and AI: Challenges and Solutions", International Journal of Cybersecurity (2021)
- 5. Bhartiya Nagrik Suraksha Sanhita (BNSS),2023
- 6. **The National Policy on Data Protection (2022)** by the Ministry of Electronics and Information Technology, Government of India
- 7. The Draft Personal Data Protection Bill, 2019

