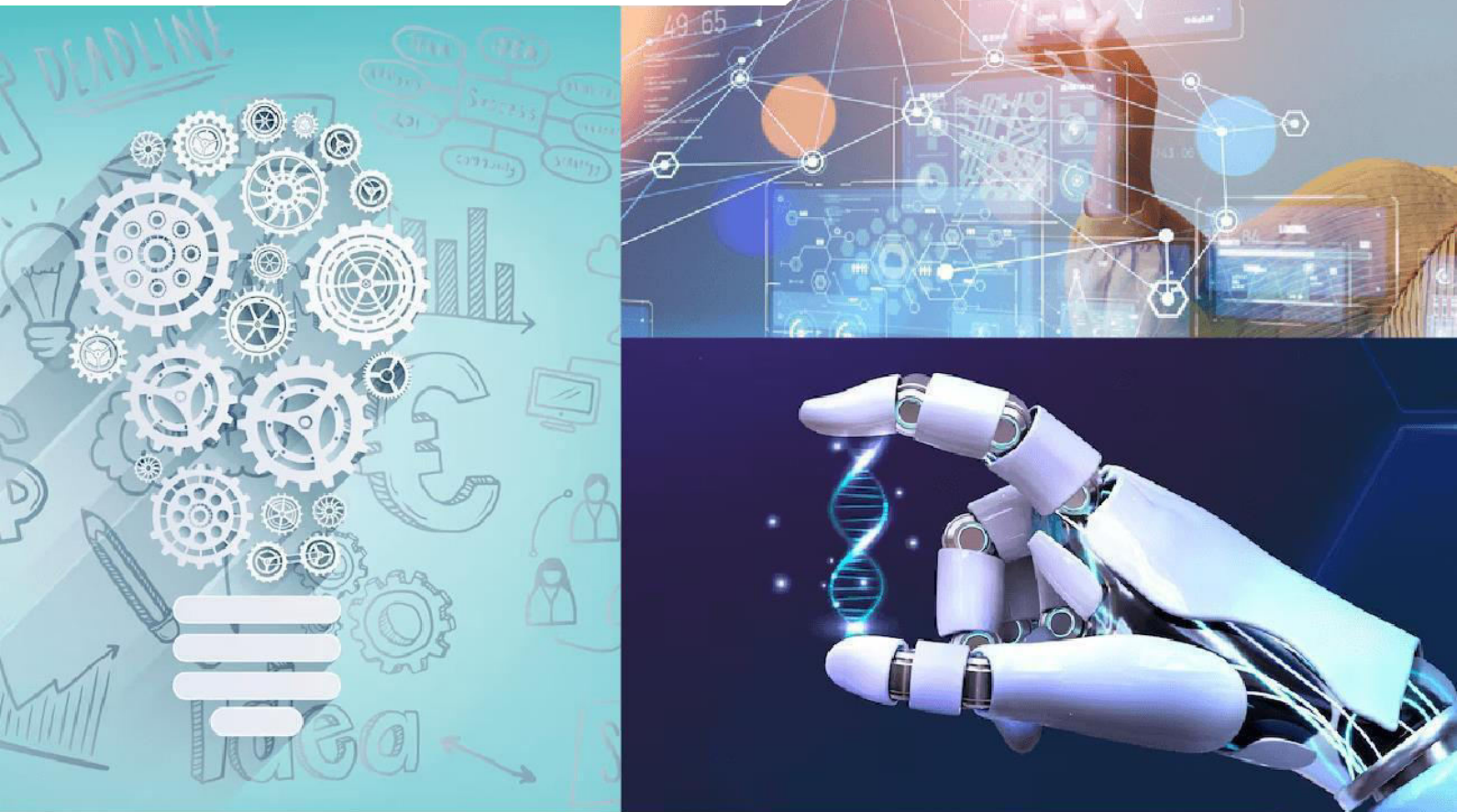




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Emerging Challenges of Law Enforcement in the Age of Digital Crimes: An Indian Perspective

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ABSTRACT: The rapid digital transformation in India has been accompanied by an unprecedented rise in sophisticated cybercrimes, presenting formidable challenges to law enforcement agencies. This research paper critically examines the evolving landscape of digital crimes in India and the corresponding limitations in legal and institutional frameworks. Through systematic analysis of secondary data, the study reveals that outdated legislation, particularly the Information Technology Act, 2000, fails to adequately address contemporary cyber threats like ransomware, digital arrest scams, and AI-facilitated crimes. The research identifies critical gaps in technical capabilities, jurisdictional coordination, and procedural protocols for digital evidence handling. Findings indicate that resource constraints and limited specialized training further impede effective cybercrime investigation. The paper proposes a comprehensive framework for enhancement, including legal reforms, capacity building in digital forensics, strengthened international cooperation, and public-private partnerships. This study contributes to scholarly discourse by synthesizing emerging cybercrime patterns with systemic response limitations, offering actionable recommendations for policymakers to develop more resilient cybersecurity ecosystems in India.

KEYWORDS: Cybercrime, Law Enforcement, Digital Forensics, Information Technology Act, Digital Evidence, Cybersecurity, India

I. INTRODUCTION

The digital revolution has fundamentally transformed Indian society, with over 900 million internet users driving unprecedented connectivity and economic growth. This rapid digitization, however, has created parallel vulnerabilities exploited by cybercriminals. India has witnessed an alarming surge in cybercrime incidents, recording a 24% increase in 2022 alone according to National Crime Records Bureau data. The sophistication and scale of digital crimes present unprecedented challenges to law enforcement agencies still adapting to this evolving threat landscape. The interconnected nature of modern cybercrimes transcends traditional jurisdictional boundaries, creating complex investigative hurdles that existing legal frameworks struggle to address.

The historical context of India's cyber legislation reveals a substantial gap between technological advancement and regulatory response. The Information Technology Act (2000), enacted during the early internet era, and its 2008 amendment predate today's complex cyber ecosystem characterized by artificial intelligence, encrypted communications, and cryptocurrency-enabled crimes. This legislative lag has created significant vulnerabilities in India's cybersecurity posture, with critical infrastructure, financial systems, and individual citizens increasingly targeted by sophisticated threat actors. Recent phenomena such as "digital arrest scams" where fraudsters impersonate law enforcement officials to extort victims – exemplify the adaptability of cybercriminals in exploiting both technological and psychological vulnerabilities.

This paper aims to comprehensively analyse the emerging challenges faced by Indian law enforcement agencies in combating digital crimes through systematic examination of secondary data. Specific objectives include:

- (1) documenting the evolution and typology of digital crimes in India;
- (2) evaluating the efficacy of existing legal and institutional frameworks;
- (3) identifying operational and technical constraints in cybercrime investigation
- (4) proposing a holistic reform agenda to strengthen India's cyber law enforcement capabilities.

The research contributes to academic discourse by synthesizing fragmented literature on cybercrime challenges while offering evidence-based policy recommendations relevant to lawmakers, enforcement agencies, and cybersecurity practitioners.

II. LITERATURE REVIEW

The academic discourse on cybercrime in India has expanded considerably, reflecting growing concern over its socio-legal implications. Existing literature reveals diverse perspectives on the nature, impact, and responses to digital crimes, though significant gaps remain in understanding systemic enforcement challenges. Scholars have primarily focused on legal analyses of the Information Technology Act, with limited empirical investigation of ground-level implementation issues faced by law enforcement agencies.

2.1 Evolution of Cybercrime Scholarship

Early cybercrime research in India predominantly addressed technical aspects of computer-related offenses, with limited interdisciplinary engagement. Ahmad (2018) provided a foundational analysis of cybercrime challenges, highlighting the inadequate legal framework and poor conviction rates despite increasing digital penetration. His work identified critical gaps in electronic evidence handling and the tendency of law enforcement to apply Indian Penal Code provisions rather than specialized IT Act provisions, creating procedural inconsistencies. However, this research predated several emerging threats like AI-facilitated crimes and digital arrest scams, indicating the rapid obsolescence characteristic of cybercrime scholarship.

Recent studies have begun examining specific cybercrime variants in the Indian context. The digital arrest scam, comprehensively documented by The Hindu (2024), exemplifies the psychological manipulation techniques employed by modern cybercriminals. This phenomenon demonstrates the evolution from purely technical exploits to sophisticated social engineering schemes that exploit trust in law enforcement institutions. Similarly, research by Bytescare (2024) has highlighted the expanding attack surface targeting critical infrastructure, including attempted cyberattacks on nuclear power plants and financial systems

2.2 Institutional and Operational Challenges

A significant portion of literature addresses structural limitations in India's cyber law enforcement ecosystem. The ScienceDirect study (2024) emphasizes the broad nature of digital forensics as a discipline, noting that most forensic science labs lack capability to keep pace with technological development speeds. This research advocates for collaborative networks and enhanced digital forensic capabilities as essential components of effective cybercrime response. The conceptual framework of the "Digital Forensic Loop" presented in this study offers a systematic approach to investigating digital crimes, though its practical implementation in the Indian context remains unexplored. International scholarship provides comparative perspectives on cyber law enforcement challenges. Global research consistently identifies jurisdictional complexities, rapid technological evolution, and resource constraints as universal challenges. However, the Indian context presents unique socio-legal complications, including federal governance structures, linguistic diversity, and varying digital literacy levels that compound these universal challenges. The regulatory fragmentation noted in Indian cyber governance – with multiple sector-specific regulations creating compliance confusion – mirrors patterns observed in other federal systems but with distinct implementation challenges.

2.3 Identified Research Gaps

Despite expanding scholarship, significant knowledge gaps persist. First, there is limited research on the operational realities of cybercrime investigation at the state and district levels in India. Second, the intersectional nature of cybercrimes – cutting across financial systems, critical infrastructure, and personal security – remains underexplored in its implications for specialized law enforcement training. Third, empirical studies on digital evidence handling procedures and their legal challenges in Indian courts are scarce. This research aims to address these gaps through systematic analysis of emerging challenges and institutional response capabilities.

III. METHODOLOGY

This research adopts a qualitative approach based exclusively on analysis of secondary data sources, aligning with the comprehensive review standards for legal and policy research. The methodological framework was designed to systematically identify, categorize, and analyse the multifaceted challenges facing Indian law enforcement in addressing digital crimes.

3.1 Data Collection and Sources

The study utilized diverse secondary sources to ensure comprehensive perspective triangulation. Primary sources included:

- **Legal documents:** The Information Technology Act (2000) and its amendments, relevant court judgments, and government policies including the National Cyber Security Policy (2013).
- **Academic publications:** Research papers from peer-reviewed journals, conference proceedings, and scholarly analyses from databases including SSRN and ScienceDirect.
- **Government reports:** Publications from CERT-In, National Crime Records Bureau, and parliamentary standing committees.
- **Contemporary analysis:** Reputable media investigations and cybersecurity industry reports documenting emerging cybercrime trends.
- **International frameworks:** Comparative legal instruments and best practices from other jurisdiction

The source selection criteria prioritized authority, relevance, and timeliness. Only sources from reputable academic, governmental, or established media organizations were included, with preference for materials published within the last five years to ensure contemporary relevance. The systematic approach to source identification involved comprehensive searching across multiple repositories using structured keyword combinations related to cybercrime, law enforcement, digital forensics, and India.

3.2 Analytical Framework

The analytical approach employed thematic analysis to identify patterns across the collected data. This involved:

1. **Familiarization:** Comprehensive review of all collected sources to develop holistic understanding.
2. **Coding:** Identification and labelling of key concepts, challenges, and recommendations across sources.
3. **Theme development:** Grouping related codes into broader thematic categories representing major challenge areas.
4. **Pattern refinement:** Iterative review of themes to ensure distinctiveness and comprehensiveness.
5. **Integration:** Synthesis of themes into a coherent framework of institutional challenges.

The analysis incorporated legal doctrinal methods to critically evaluate statutory provisions and judicial interpretations, combined with policy analysis techniques to assess institutional mechanisms and implementation gaps. The triangulation approach across diverse source types enhanced validity by mitigating individual source limitations.

3.3 Limitations

As with any secondary data-based research, this study has certain methodological constraints. First, the reliance on published sources may introduce selection bias toward documented cases, potentially underrepresenting novel or unreported cybercrimes. Second, the rapidly evolving nature of digital crimes means some analyses may have temporal limitations. Third, the lack of primary empirical data from law enforcement agencies limits ground-level insights into operational challenges. These limitations, however, are mitigated by the comprehensive scope of sources and systematic analytical approach, ensuring robust findings relevant to the research objectives.

IV. EVOLUTION AND TYPOLOGY OF DIGITAL CRIMES IN INDIA

The landscape of digital crimes in India has undergone significant transformation from basic computer intrusions to sophisticated multi-vector attacks targeting individuals, organizations, and critical infrastructure. This evolution reflects both global cybercrime trends and India-specific socioeconomic factors, including rapid digitalization, increased smartphone penetration, and growing financial inclusion through digital payment systems.

4.1 Emerging Cybercrime Variants

Table 1: Emerging Digital Crimes in India

Crime Category	Examples	Modus Operandi	Primary Impacts
Financial Frauds	Digital arrest scams, UPI fraud, ATM skimming	Social engineering, phishing, vishing (voice phishing)	Direct financial losses, banking system distrust
Cyber Extortion	Ransomware attacks, sextortion	Data encryption, threat of disclosure	Financial loss, operational disruption, psychological distress
Identity Crimes	Identity theft, impersonation scams	Data breaches, social engineering, document forgery	Financial fraud, reputation damage, legal implications
Platform-Specific Crimes	Cyberstalking, cyberbullying, fake job scams	Social media manipulation, deceptive recruitment	Psychological harm, financial loss, social reputation damage
Critical Infrastructure Attacks	Cyber espionage, SCADA system targeting	Advanced persistent threats, malware implantation	National security risks, service disruption, economic damage

Recent years have witnessed the proliferation of "digital arrest" scams, where fraudsters impersonate law enforcement officials to deceive victims. As documented by The Hindu (2024), these scams involve perpetrators contacting victims via phone calls, falsely accusing them of crimes, and then conducting fake investigations through video platforms like Skype or WhatsApp. The criminals create police station-like setups to enhance credibility and coerce victims into transferring funds to "clear their names." This phenomenon exemplifies the increasing sophistication of social engineering techniques that exploit institutional trust and technological accessibility.

Another significant trend is the rising threat to industrial control systems and critical infrastructure. As noted in research from SSRN (2018), industrial systems are particularly vulnerable because they often operate on legacy systems "with no concept of security". The attempted cyberattack on the Kudankulam Nuclear Power Plant illustrates the serious consequences of infrastructure targeting, while the "Operation SideCopy" campaign – attributed to Pakistani threat actors targeting Indian military and diplomatic personnel – demonstrates the geopolitical dimensions of cyber espionage.

4.2 Case Studies of Evolving Digital Crimes

Case Study 1: The Digital Arrest Scam Phenomenon The digital arrest scam represents a complex convergence of technical and psychological manipulation techniques. Prime Minister Modi specifically warned citizens about this threat, indicating its scale and impact. The scam operates through orchestrated deception, with multiple perpetrators playing different roles (law enforcement officers, banking officials, etc.) to create credibility. Victims are psychologically manipulated through fear and urgency tactics into remaining on video calls for extended periods while transferring funds. This phenomenon illustrates challenges in jurisdictional attribution, as scam call centres often operate across state and national boundaries.

Case Study 2: Ransomware Evolution India has witnessed a significant increase in ransomware attacks targeting both public and private organizations. The 2017 WannaCry and Petya attacks highlighted the vulnerability of unpatched systems across sectors. Unlike early ransomware that targeted individual users, contemporary variants employ advanced distribution mechanisms and cryptocurrency payments, creating investigation challenges. The healthcare and education sectors have been particularly impacted during the COVID-19 pandemic, demonstrating how societal circumstances create new targeting opportunities for cybercriminals.

Case Study 3: Financial Frauds through Social Engineering Research indicates increasing monetization strategies targeting India's growing digital payment ecosystem. The SSRN paper highlights "vishing mechanisms of asking for OTP" as particularly effective, with criminals exploiting trust in legitimate services. Fake job scams targeting students illustrate how socioeconomic aspirations are exploited, with fraudsters extracting small amounts that often go unreported due to perceived embarrassment and low recovery likelihood. These patterns reveal the need for behavioural awareness alongside technical security measures.

V. LEGAL FRAMEWORK ANALYSIS

India's primary legislative response to cybercrime, the Information Technology Act (2000), was visionary for its time but has failed to evolve at pace with technological advancement. The Act established crucial foundations for electronic governance and digital signatures while creating substantive provisions for computer-related offenses. However, its core architecture remains anchored in early internet era assumptions, creating significant limitations in addressing contemporary threats.

5.1 Limitations of the Information Technology Act

The IT Act suffers from several structural deficiencies that impair its effectiveness against modern cybercrimes:

Outdated Classification: The Act's categorization of cybercrimes fails to address numerous emerging offenses such as ransomware attacks, cryptojacking, AI-facilitated crimes, and large-scale data manipulation. Section 66 of the IT Act covers computer-related offenses but employs limited definitions that exclude many contemporary attack vectors. This creates legal ambiguity and enforcement challenges for novel cybercrimes.

Inadequate Penal Provisions: The punishment framework under the IT Act has been criticized as either disproportionately severe for minor offenses or insufficient for serious cybercrimes. For instance, Section 66F addressing cyber terrorism employs broad terminology that could encompass various activities, creating potential for misapplication while simultaneously lacking precision against specific threats to critical infrastructure.

Jurisdictional Ambiguities: The Act's provisions for extraterritorial application (Section 1(2) and Section 75) present practical enforcement challenges. The borderless nature of cybercrime combined with limited international cooperation mechanisms creates safe havens for perpetrators targeting Indian victims from overseas. Domestic jurisdictional issues between state and federal authorities further complicate investigation coordination.

Electronic Evidence Challenges: While the IT Act amended the Indian Evidence Act to include electronic records, the procedural requirements for electronic evidence admissibility remain complex. The Section 65B certification mandate for electronic evidence has created interpretation inconsistencies across courts, impeding effective prosecution.

5.2 Supplementary Legal Measures

Recognizing the IT Act's limitations, policymakers have introduced supplementary measures with varying effectiveness:

The National Cyber Security Policy (2013): This policy aimed to create a cyber resilience framework but lacked legislative backing and sufficient funding mechanisms. Its objective to develop 500,000 skilled cybersecurity professionals remained largely unfulfilled, reflecting the implementation gap between policy ambition and ground reality.

Sectoral Regulations: Various sectors including banking, insurance, and telecommunications have developed cybersecurity guidelines. However, this fragmented approach has created regulatory inconsistencies and compliance challenges, particularly for organizations operating across multiple sectors.

Indian Penal Code Applications: Law enforcement agencies frequently apply traditional IPC provisions to cybercrimes, creating legal uncertainty. The Kalindi Charan Leka case demonstrated successful application of IPC sections alongside IT Act provisions for cyberstalking, but the Sharat Babu Digumarti case created limitations on such concurrent application. This jurisprudential inconsistency creates confusion in investigative approaches.

5.3 Comparative International Frameworks

The Budapest Convention on Cybercrime, despite India's non-ratification, offers valuable procedural standards for electronic evidence collection and international cooperation. The European Union's NIS Directive provides models for critical infrastructure protection that could inform Indian approaches. The rapid legislative updates in jurisdictions like Singapore and the United Arab Emirates demonstrate the importance of regular legal refinements to address emerging technologies.

Table 2: Comparative Analysis of Cyber Law Frameworks

Jurisdiction	Primary Legislation	Key Strengths	Lessons for India
India	Information Technology Act, 2000	Comprehensive foundational framework, recognition of electronic records	Need for regular updates, specialized institutional mechanisms
Singapore	Computer Misuse Act, Cybersecurity Act 2018	Clear incident reporting requirements, proactive vulnerability oversight	Regulatory precision, public-private collaboration models
European Union	Budapest Convention, NIS Directive	International cooperation mechanisms, critical infrastructure focus	Cross-border investigation protocols, sector-specific security standards
United States	Computer Fraud and Abuse Act, state-level laws	Public-private information sharing, specialized investigative units	Integrated response frameworks, intelligence sharing mechanisms

VI. LAW ENFORCEMENT CHALLENGES

Indian law enforcement agencies face multidimensional challenges in combating digital crimes, ranging from technical resource constraints to procedural ambiguities. These challenges collectively undermine effective cybercrime prevention, investigation, and prosecution despite increasing digitalization across society.

6.1 Technical and Resource Constraints

A significant disparity exists between the technological sophistication available to cybercriminals and the capabilities of law enforcement agencies. Most state cybercrime cells operate with outdated equipment and limited access to advanced digital forensic tools, creating investigation delays that criminals exploit. The rapid evolution of encryption technologies, anonymity tools, and cryptocurrency laundering techniques further exacerbates this technical gap.

The shortage of specialized personnel represents another critical constraint. Digital forensics requires highly specialized training, yet most police training academies devote minimal curriculum time to cybercrime investigation. This skills gap is particularly acute at district levels, where first responders may lack basic digital evidence preservation knowledge. The result is frequent mishandling of electronic evidence that compromises subsequent prosecution efforts. Forensic laboratory backlogs create additional investigation impediments. With most forensic science labs "unable to keep up with the technology forefront development speed", device analysis delays of several months are common, allowing criminal networks to continue operations and destroy evidence. The resource-intensive nature of digital forensic analysis, combined with increasing evidence volumes, creates unsustainable workload pressures on existing facilities.

6.2 Procedural and Jurisdictional Issues

Cybercrime investigations face complex procedural hurdles, particularly regarding electronic evidence handling. The legal requirement for Section 65B certification of electronic evidence has created significant interpretation inconsistencies across courts. The absence of standardized protocols for evidence collection, preservation, and chain-of-custody documentation further compromises investigation integrity.

Jurisdictional ambiguities present substantial enforcement challenges. The transnational nature of many cybercrimes, such as digital arrest scams where perpetrators often operate from other countries, creates investigation barriers due to limited international cooperation mechanisms and lengthy mutual legal assistance processes. Even domestically, conflicts between state police jurisdictions and overlapping federal agency mandates create coordination inefficiencies. The bailable nature of most offenses under the IT Act represents another significant limitation. As noted in research, "Most of the provisions are bailable if only IT Act is used. This often leads to mandatory granting of bail to an accused". This procedural aspect enables repeat offending and reduces deterrence, particularly for organized cybercriminal networks.

6.3 Data and Reporting Challenges

Chronic underreporting of cybercrimes distorts threat understanding and resource allocation. Research indicates that many victims, particularly in cases involving smaller financial losses or social stigma, decline to report incidents. The reasons include perceived embarrassment, low recovery expectations, and concerns about bureaucratic processes. This underreporting creates significant data gaps that impede comprehensive threat assessment and policy formulation.

Even when crimes are reported, standardization deficiencies in documentation create analysis challenges. The absence of uniform cybercrime categorization across states prevents accurate national trend assessment, while limited data sharing between law enforcement agencies hampers pattern recognition of organized cybercriminal activities.

VII. CONCLUSION AND RECOMMENDATIONS

The research reveals that India's law enforcement ecosystem faces systemic challenges in effectively combating digital crimes, rooted in outdated legal frameworks, technical resource constraints, procedural ambiguities, and institutional capacity limitations. The accelerating pace of digital transformation, while delivering significant socioeconomic benefits, has concurrently created unprecedented vulnerabilities exploited by cybercriminals. The analysis demonstrates that piecemeal approaches to cyber law reform have proven insufficient to address the complex and evolving threat landscape.

7.1 Key Findings Synthesis

First, the legal architecture governing cybercrimes in India remains anchored in early internet era assumptions, creating substantial gaps in addressing contemporary threats like ransomware, AI-facilitated crimes, and sophisticated social engineering schemes such as digital arrest scams. The Information Technology Act (2000) suffers from classification deficiencies, inadequate penal provisions, and jurisdictional ambiguities that impede effective prosecution.

Second, law enforcement agencies face operational limitations including technical resource constraints, forensic backlogs, and specialized personnel shortages. These capacity issues are compounded by procedural complexities in electronic evidence handling and jurisdictional challenges in investigating transnational cybercrimes.

Third, systemic issues including chronic underreporting, data standardization deficiencies, and limited public awareness create fundamental barriers to comprehensive cybercrime response. The bailable nature of most IT Act offenses further reduces deterrence against organized cybercriminal networks.

7.2 Recommendations

Based on research findings, the following recommendations propose a holistic framework for enhancing India's cyber law enforcement capabilities:

Legal and Policy Reforms:

- Enact comprehensive cyber law review to replace the outdated IT Act with contemporary legislation addressing emerging threats like AI-facilitated crimes, ransomware, and cryptocurrency laundering.
- Establish clear jurisdictional protocols for cross-state and international cybercrime investigations, including streamlined mutual legal assistance processes.
- Reclassify serious cyber offenses as non-bailable to enhance deterrence, while ensuring proportionality for minor violations.

Institutional Capacity Building:

- Develop specialized digital forensics units at state levels with advanced tooling and standardized protocols, leveraging the "Digital Forensic Loop" concept for systematic investigation .
- Implement continuous capacity building programs for judiciary and law enforcement personnel on cybercrime investigation and emerging technologies.
- Create multidisciplinary cybercrime response teams integrating legal, technical, and behavioural expertise for complex investigations.

Operational and Technical Enhancements:

- Establish real-time information sharing platforms between law enforcement agencies and critical infrastructure sectors to enable rapid threat response.
- Develop standardized electronic evidence handling protocols admissible across courts, addressing current Section 65B certification inconsistencies .
- Enhance international cooperation through bilateral agreements for evidence sharing and joint investigations, particularly with jurisdictions hosting frequent perpetrators.

Prevention and Awareness Measures:

- Implement nationwide cybersecurity awareness campaigns focusing on emerging threats like digital arrest scams, emphasizing that "government agencies do not use platforms like WhatsApp or Skype for official communication".
- Promote public-private partnerships for cybersecurity capacity building, leveraging private sector technical expertise while sharing threat intelligence.
- Integrate cybersecurity education into academic curricula to build foundational digital literacy from early education levels.

7.3 Concluding Remarks

As India continues its digital transformation journey, developing **resilient cybersecurity ecosystems** becomes imperative for national security, economic stability, and citizen protection. This research has demonstrated that addressing the **multifaceted challenges** of digital law enforcement requires coordinated reforms across legal, institutional, technical, and societal domains. The proposed recommendations offer a framework for systematic enhancement of India's cybercrime response capabilities.

Future research should empirically investigate ground-level implementation challenges, explore AI applications in cybercrime prevention, and analyse comparative international models for adaptable solutions. The **dynamic nature** of cyber threats necessitates continuous scholarly engagement and policy adaptation to ensure that legal frameworks and law enforcement capabilities evolve in tandem with technological innovation, ultimately creating a more secure digital environment for India's growing online population.

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