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# CYBERSECURITY LAWS IN THE DIGITAL AGE: GAPS AND RECOMMENDATIONS

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## **Abstract**

In a time of swift digital change, cybersecurity has become a major worry for people, companies, and governments alike. Cloud computing, the Internet of Things (IoT), and artificial intelligence have all changed data-driven businesses, but they have also revealed structural flaws in the legal frameworks that are now in place. This research investigates the adequacy of current cybersecurity laws across major jurisdictions, identifying key regulatory gaps in scope, enforcement, and cross-border cooperation. Through a comparative legal analysis and review of case studies involving recent cyber incidents, the paper highlights shortcomings such as outdated definitions, limited jurisdictional clarity, weak enforcement capabilities, and insufficient protection for emerging data types.

The study finds that most national legal systems lag behind the pace of technological innovation, leaving critical infrastructures and personal data vulnerable to increasingly sophisticated cyber threats. It further observes a lack of harmonized international standards, which hampers effective global responses to cybercrime. In response, the paper recommends a multidimensional policy reform agenda that includes updating statutory definitions, promoting international cooperation, enhancing regulatory enforcement, and incentivizing public-private partnerships. The findings underscore the urgent need for agile, forward-looking legal frameworks to safeguard digital ecosystems in the 21st century.

#### **Keywords**

Cybersecurity, Digital Age, Cyber Laws, Legal Framework, Data Protection, Regulatory Gaps, Policy Recommendations

#### 1. INTRODUCTION

Cybersecurity refers to the practice of protecting systems, networks, and digital data from unauthorized access, disruption, theft, or damage. As societies increasingly rely on interconnected digital infrastructure—from financial systems and healthcare records to government databases and critical utilities—the importance of robust cybersecurity has never been more pronounced. In the digital age, where data is a strategic asset and cyberattacks can

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disrupt economies and endanger lives, the demand for comprehensive and adaptable cybersecurity frameworks is paramount.

The motivation for this study stems from the alarming rise in both the volume and sophistication of cyber threats worldwide. Cybercriminals and state-sponsored actors are exploiting vulnerabilities in systems that were never designed to withstand modern digital threats. High-profile incidents, including ransomware attacks on hospitals, breaches of government agencies, and large-scale data leaks from private corporations, illustrate the urgent need for legal systems to evolve. However, many existing cybersecurity laws were enacted in a pre-digital or early-digital era and have failed to keep pace with the rapid evolution of technology.

Moreover, cyber threats do not recognize national boundaries. The global nature of cyberspace presents jurisdictional challenges that complicate law enforcement and regulatory oversight. With data flows crossing borders and cybercriminals operating transnationally, the lack of harmonized international legal standards further exacerbates vulnerabilities. These issues underscore the critical need to assess current cybersecurity legal frameworks, identify gaps, and propose actionable recommendations for reform in the face of a rapidly evolving digital threat landscape.

## 2. BACKGROUND AND LITERATURE REVIEW

# 2.1 Existing National and International Cybersecurity Laws

Cybersecurity legislation has developed unevenly across the globe, with some jurisdictions adopting comprehensive frameworks and others relying on fragmented or outdated statutes. Prominent among international regulations is the **General Data Protection Regulation (GDPR)** of the European Union, which, while primarily a data protection law, sets high standards for data security and breach notification. It has significantly influenced global privacy norms by mandating strict controls over the collection, storage, and processing of personal data.

In the United States, the California Consumer Privacy Act (CCPA) and the more recent California Privacy Rights Act (CPRA) represent efforts to codify digital rights and corporate responsibilities. However, the absence of a unified federal cybersecurity law results in a patchwork of state-level statutes, creating compliance complexities.

India's **Information Technology Act, 2000**, along with subsequent amendments such as the **IT** (**Amendment**) **Act 2008** and rules for data protection, forms the backbone of the country's cybersecurity legal framework. However, critics argue that it lacks specificity in addressing emerging threats and technologies. The **National Institute of Standards and Technology** (**NIST**) in the U.S. has issued widely respected cybersecurity frameworks used globally as non-binding best practices, especially in critical infrastructure sectors.

International cooperation remains limited. The **Budapest Convention on Cybercrime**, spearheaded by the Council of Europe, is the only binding international treaty on cybercrime, but major nations like Russia and China are not signatories, limiting its effectiveness.

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## 2.2 Effectiveness and Shortcomings of Current Frameworks

The academic and legal literature largely agrees that while cybersecurity laws have evolved in response to growing threats, they remain reactive and fragmented. According to Deibert (2020), most legal systems suffer from a "compliance-first" approach, focusing more on procedural obligations than on resilience or deterrence. Many laws lack adequate provisions for real-time incident response, threat intelligence sharing, and proactive risk assessment.

Studies by the World Economic Forum and the International Telecommunication Union (ITU) have identified lack of enforcement capacity, ambiguity in regulatory language, and overreliance on voluntary compliance as key structural weaknesses. Furthermore, cybersecurity laws often lag behind the technologies they seek to regulate. For example, there is limited legal clarity on responsibility for AI-generated cyberattacks or IoT device vulnerabilities, and there are no universally accepted standards for quantum-resistant encryption protocols.

Legal scholars such as Solove and Schwartz (2021) argue that current legal regimes often focus excessively on personal data protection while neglecting broader issues of system integrity, critical infrastructure defense, and public-private collaboration in cyber incident response.

# 2.3 Trends in Cybercrime and Emerging Technologies

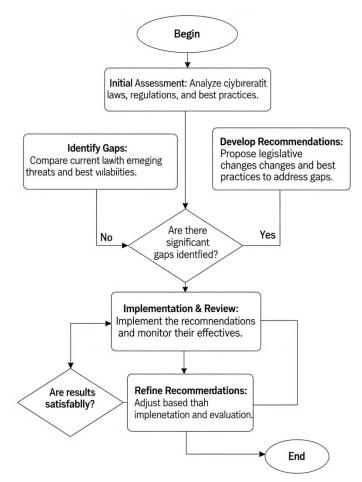
The cybersecurity threat landscape has changed dramatically in recent years, driven by the convergence of disruptive technologies. **Artificial Intelligence** (**AI**), while improving threat detection, is also being used to automate and scale attacks, such as deepfake-based social engineering and intelligent malware. The proliferation of **Internet of Things** (**IoT**) devices, many with inadequate security features, has expanded the attack surface, exemplified by botnet attacks like Mirai.

Moreover, the advent of quantum computing poses a significant future threat to current encryption protocols. Although quantum computers capable of breaking modern cryptography are still in development, the concept of "harvest now, decrypt later" suggests that sensitive data intercepted today could be decrypted in the future, raising long-term privacy and national security concerns.

Cybercrime is also becoming more industrialized and commodified, with ransomware-as-a-service (RaaS) and malware kits available on the dark web. This has led to a rise in supply chain attacks, insider threats, and ransomware campaigns targeting healthcare, education, and public services—sectors traditionally under-protected.

These developments highlight the need for dynamic, adaptive legal systems that not only deter cybercrime but also encourage cyber hygiene, promote innovation, and facilitate international collaboration.

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This diagram visually represents the process of identifying weaknesses in cybersecurity laws and developing actionable steps for improvement.

## 3. METHODOLOGY

This research adopts a qualitative legal research methodology to examine the adequacy of existing cybersecurity laws and identify policy and regulatory gaps in the context of evolving digital threats. The study employs four interrelated approaches: doctrinal legal analysis, comparative review, policy gap analysis, and case study evaluation.

# 3.1 Legal Analysis and Comparative Review

A doctrinal legal analysis was conducted to examine the textual content, structure, and enforcement mechanisms of key national and international cybersecurity laws. This involved reviewing statutory provisions, regulations, judicial interpretations, and administrative guidelines related to cybersecurity, data protection, and digital infrastructure.

The comparative review focused on five representative jurisdictions: European Union (GDPR), United States (CCPA/NIST), India (IT Act), China (Cybersecurity Law), and Australia (Security of Critical Infrastructure Act). These jurisdictions were selected due to their geopolitical

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influence, economic significance, and varying legal traditions (civil law, common law, hybrid systems). The comparison provides a diverse perspective on how different legal systems address common cybersecurity challenges and reveals patterns of regulatory innovation or stagnation.

## 3.2 Policy Gap Analysis

To identify **regulatory and policy gaps**, the study used a structured analytical framework based on the following criteria:

- Legal coverage of emerging technologies (AI, IoT, quantum computing)
- Enforcement mechanisms and institutional capacity
- Provisions for cross-border cooperation and jurisdiction
- Data protection and breach notification standards
- Critical infrastructure and public-private collaboration

This analysis was informed by best practice frameworks such as the NIST Cybersecurity Framework, ENISA Guidelines, and OECD cybersecurity policy recommendations.

## 3.3 Case Studies

Case studies of recent high-profile cyber incidents—such as the SolarWinds supply chain breach, the Colonial Pipeline ransomware attack, and cyber espionage targeting Indian critical infrastructure—were incorporated to illustrate how current legal frameworks respond to real-world threats. These cases were chosen for their international relevance, diversity of attack vectors, and differing governmental/legal responses.

#### 3.4 Data Sources

The research is grounded in a review of:

- **Primary legal sources**: legislation, regulatory documents, judicial decisions
- Secondary sources: peer-reviewed journal articles, legal commentaries, white papers
- Institutional reports: publications from UN, ITU, OECD, ENISA, World Economic Forum, and national cybersecurity agencies

# 4. ANALYSIS OF EXISTING CYBERSECURITY LAWS

#### 4.1 National Frameworks

Cybersecurity legislation varies widely across jurisdictions in terms of scope, enforcement mechanisms, and compliance obligations. This section examines the frameworks in four major jurisdictions—**United States, European Union, India, and China**—highlighting their strengths and limitations.

#### **United States**

There isn't a single comprehensive federal cybersecurity law in the United States. Rather, it depends on a state-level and sector-specific strategy. The Federal Information Security Modernization Act (FISMA) and the Computer Fraud and Abuse Act (CFAA) are important federal statutes. Furthermore, the Cyber Incident Reporting for Critical Infrastructure Act (CIRCIA, 2022) requires certain industries to report cyber incidents within 72 hours, while the NIST Cybersecurity Framework offers organizations voluntary guidelines.

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**Enforcement** is carried out by multiple agencies, including the Department of Homeland Security (DHS), FBI, and the Cybersecurity and Infrastructure Security Agency (CISA). However, fragmentation across agencies creates coordination challenges. Compliance enforcement varies by sector, and penalties are often insufficiently dissuasive.

## **European Union**

The General Data Protection Regulation (GDPR) of the EU establishes the standard for cybersecurity accountability and data protection. It requires that data breaches be reported strictly within 72 hours, and noncompliance can result in fines of up to 4% of global yearly sales. Security and reporting requirements for digital infrastructure and critical services are further expanded by the Network and Information Systems (NIS2) Directive.

The EU's centralized enforcement through supervisory authorities in each member state, coordinated by the European Data Protection Board (EDPB), improves consistency. However, enforcement is uneven, and smaller organizations struggle with the complexity and cost of compliance.

#### India

Cyberterrorism, data breaches, and unauthorized access are all illegal under India's main law, the Information Technology Act, 2000 (IT Act), which has been amended by the IT (Amendment) Act, 2008. It does not, however, have thorough data protection guidelines. This loophole will be filled by the forthcoming Digital Personal Data Protection Act (DPDP Act, 2023), which will enforce breach notifications and consent-based data processing.

Enforcement is managed by the Indian Computer Emergency Response Team (CERT-In), which mandates cybersecurity practices and breach disclosures. However, penalties are modest, and enforcement is inconsistent due to limited technical and legal capacity at the state level.

#### China

China's **Cybersecurity Law** (2017), along with the Data Security Law (2021) and Personal Information Protection Law (PIPL, 2021), forms one of the most extensive cybersecurity legal regimes globally. The laws **emphasize** national security, data localization, **and** state access to data. Organizations handling "critical information infrastructure" must undergo security reviews and comply with data storage requirements.

**Enforcement** is aggressive and centralized, often involving severe administrative and criminal penalties. However, critics argue that the laws prioritize state surveillance over individual rights, raising concerns about digital authoritarianism.

## 4.2 International and Cross-Border Issues

Cyber threats inherently transcend national borders, making international cooperation essential. However, jurisdictional limitations, asymmetric legal frameworks, and geopolitical tensions often hinder collaboration.

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# **Jurisdictional Challenges**

The lack of clarity on which national laws apply in cross-border incidents creates enforcement obstacles. For instance, a ransomware attack originating from one country but targeting servers in multiple others often leads to jurisdictional conflicts. Mutual legal assistance treaties (MLATs), used to facilitate cross-border investigations, are slow and bureaucratic, often taking months to yield results.

# **Cyber Diplomacy and Cooperation**

Due to conflicting national interests, attempts to create standards for state conduct in cyberspace, such as those of the UN Group of Governmental Experts (GGE) and Open-Ended Working Group (OEWG), have not advanced very far. China and Russia support state control over cyberspace, whereas Western nations prioritize open and secure internet regulation.

## **Role of International Treaties**

The only legally enforceable international agreement addressing cybercrime is the Council of Europe's 2001 Budapest Convention on Cybercrime. It encourages collaboration in evidence exchange, extradition, and inquiry. The lack of signatories from significant cyberpowers like China, Russia, and India, who object to the treaty's alleged Western bias, limits its efficacy.

The Second Additional Protocol (2022) seeks to improve cross-border data access, but the lack of global consensus hinders its universal adoption.

#### **TABLES & GRAPH**

Table 1: National Cybersecurity Frameworks Overview

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Jurisdictio n	Key Laws	Scope	Breach Notification	Penalty Severity
United States	CFAA, FISMA, CIRCIA, NIST	Sector-specific	72 hrs (CIRCIA)	Moderate
European Union	GDPR, NIS2	Comprehensive	72 hrs (GDPR)	High
India	IT Act 2000, DPDP 2023	Limited	Immediate (CERT-In)	Low- Moderate
China	CSL, PIPL, DSL	Extensive	Unspecified	High
Australia	SOCI Act, Privacy Act	Critical Infrastructure + Privacy	As soon as practicable	Moderate

**Table 2: Enforcement and Governance Analysis** 

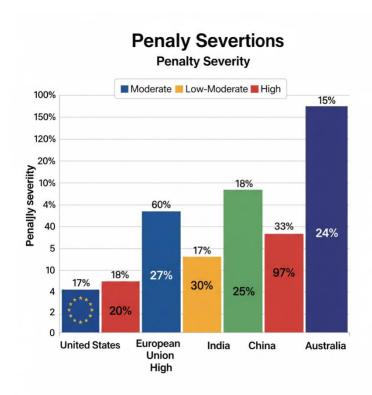
Jurisdiction	Enforcement Body	Technical Capacity	Public-Private Collaboration	Key Challenges
United	DHS, CISA,			
States	FBI	High	Moderate	Fragmented oversight
European	DPAs,	Moderate-		
Union	ENISA	High	Strong	Uneven enforcement

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	CERT-In,	Low-		Outdated laws, weak
India	MEITY	Moderate	Limited	enforcement
				Privacy concerns, excessive
China	CAC, MIIT	High	Mandatory	state control
	ACSC,			
Australia	OAIC	Moderate	Growing	SME compliance burden

Table 3: Legal Gaps in Addressing Emerging Technologies

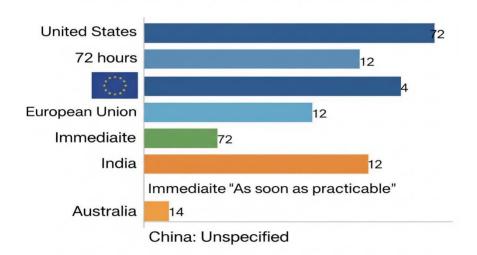
Jurisdiction	AI Regulation	IoT Laws	Quantum Readiness	Cross-Border Data Clarity
United States	Fragmented	Minimal	Early-stage	Weak
European	AI Act (in		Funded	
Union	progress)	Moderate	research	Strong
India	None	Lacking	None	Ambiguous
		Covered in		Strict
China	Guidelines exist	CSL	Limited	localization
			Research	
Australia	Under review	Sectoral	stage	GDPR-aligned



**Graph 1 : Technical Capacity & Public-Private Collaboration:** 

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# **Breach Notification timelines**



**Graph 1: Breach Notification Timelines** 

#### 5. RESULTS AND DISCUSSION

The analysis of the cybersecurity legislative landscape across five jurisdictions — the United States, European Union, India, China, and Australia — reveals marked differences in the scope, enforcement strength, and governance of national cybersecurity frameworks.

# **Enforcement Strength vs. Scope of Cybersecurity Legislation**

The scatter plot comparing enforcement strength against legislative scope (Graph: Enforcement Strength vs. Scope of Cybersecurity Legislation) highlights clear distinctions among the jurisdictions. The European Union (EU) stands out with both a comprehensive legislative scope and strong enforcement mechanisms, reflecting its unified approach under regulations such as the GDPR and NIS2. This comprehensive coverage coupled with strong enforcement positions the EU as a global benchmark in cybersecurity governance.

In contrast, India exhibits both limited legislative scope and weak enforcement strength, indicating significant gaps in its national cybersecurity framework. This aligns with Table 1 and Table 2 findings, where India's IT Act 2000 and the newer DPDP 2023 laws have limited reach, and enforcement bodies like CERT-In face capacity constraints and outdated legal provisions. China, while scoring high in enforcement strength due to strong state control via bodies like the CAC and MIIT, maintains a more state-centric, extensive legal framework. The high enforcement is accompanied by concerns over privacy and excessive government control, as highlighted in Table 2. This reflects a governance model distinct from Western liberal democracies, emphasizing mandatory compliance and strict data localization.

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The United States shows strong enforcement strength supported by multiple agencies (DHS, CISA, FBI) but has a fragmented, sector-specific legislative scope, as evident in the variety of laws like CFAA, FISMA, and CIRCIA. This fragmentation complicates a unified national strategy and introduces challenges in public-private collaboration and oversight coordination. Australia falls in a moderate position on both axes, with legislative scope focused on critical infrastructure and privacy and enforcement bodies showing growing capacity. Its framework reflects a balance between regulatory rigor and pragmatic enforcement, addressing SME compliance challenges as indicated in Table 2.

# **Legislative Scope and Penalty Severity**

Table 1 further illustrates differences **in** key legal provisions such as breach notification timelines and penalty severity. The EU mandates a 72-hour breach notification under GDPR with high penalties, reinforcing its commitment to data protection and accountability. The US also enforces a 72-hour breach notification under CIRCIA but imposes moderate penalties, consistent with its sector-specific approach.

India's breach notification is immediate but lacks standardized enforcement and has low to moderate penalties, contributing to weaker deterrence. China's unspecified breach notification requirements but high penalties reflect the state's tight regulatory control. Australia's timely breach reporting and moderate penalties support its balanced regulatory approach.

# **Governance and Enforcement Challenges**

Table 2 highlights the governance structures and challenges faced by each jurisdiction. The EU benefits from strong public-private collaboration and moderate-to-high technical capacity within enforcement agencies like ENISA, though it still faces uneven enforcement across member states. The US has high technical capacity but suffers from fragmented oversight due to its decentralized federal system.

India's enforcement bodies show limited capacity and collaboration, hampered by outdated laws and insufficient resources. China's mandatory compliance model and high technical capacity enable strong enforcement, but this comes at the cost of privacy concerns and strict government control. Australia is expanding its public-private collaboration but grapples with SME compliance burdens and moderate enforcement capacity.

## **Addressing Emerging Technologies and Legal Gaps**

Table 3 reveals significant legal gaps in emerging technology regulation across jurisdictions. The EU is proactive with the AI Act under development and funded research into quantum technologies, paired with clear cross-border data rules. The US, however, exhibits fragmented AI regulation and minimal IoT laws, reflecting a need for cohesive frameworks to keep pace with technological advances.

India lacks AI and quantum technology laws entirely and has ambiguous cross-border data policies, underscoring urgent legislative needs in these areas. China maintains guidelines for AI and IoT, though quantum readiness is limited, and strict data localization policies add <a href="http://jier.org">http://jier.org</a>

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complexity. Australia is reviewing AI regulations and aligns with GDPR principles for data flows but remains in early stages for quantum and IoT governance.

## 6. CONCLUSION

In the rapidly evolving digital landscape, robust cybersecurity laws are critical to safeguarding national security, protecting individual privacy, and enabling trust in digital economies. This analysis reveals significant disparities in the scope, enforcement strength, and governance of cybersecurity legislation across key global jurisdictions. While regions like the European Union lead with comprehensive and well-enforced frameworks, others—such as India—face considerable challenges due to outdated laws, limited enforcement capacity, and insufficient public-private collaboration.

Emerging technologies like artificial intelligence, the Internet of Things, and quantum computing present new regulatory frontiers that most current legal frameworks are ill-equipped to handle. Fragmentation of laws, uneven enforcement, and privacy concerns—especially in state-centric models—further complicate efforts to build resilient cybersecurity ecosystems. To bridge these gaps, jurisdictions must prioritize the harmonization of cybersecurity laws, enhance enforcement capabilities, and foster stronger cooperation between government agencies and private sectors. Additionally, proactive regulation of emerging technologies and clearer cross-border data policies are imperative to address future threats effectively. By adopting a forward-looking, collaborative, and adaptive legal approach, nations can better protect their digital infrastructures and maintain global competitiveness in the digital age.

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