

Cybersecurity Management Imperative: Driving Resilience and Competitive Advantage in Indian Startups and Digital Enterprises - A Secondary Data Analysis

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Abstract: India's rapidly expanding digital economy has enabled startups and digital enterprises to scale quickly by leveraging cloud computing, data analytics, and platform-based business models. While this digital dependence has accelerated innovation and market reach, it has also significantly increased exposure to cyber threats such as data breaches, ransomware attacks, identity theft, and service disruptions. For many startups operating under resource constraints and intense growth pressure, cybersecurity continues to be treated as a technical concern rather than a strategic management priority. This study examines cybersecurity management as a critical imperative for strengthening organisational resilience and achieving sustainable competitive advantage in Indian startups and digital enterprises. Using a secondary data analysis approach, the research synthesises insights from academic literature, industry reports, regulatory publications, and documented cyber incidents. The findings highlight that proactive cybersecurity management enhances operational continuity, stakeholder trust, regulatory compliance, and long-term business sustainability. By repositioning cybersecurity as a strategic enabler rather than a cost centre, this paper contributes to the growing discourse on cybersecurity governance from a management perspective, offering valuable insights for entrepreneurs, managers, policymakers, and researchers.

Keywords: Cybersecurity Management, Digital Enterprises, Indian Startups, Organisational Resilience, Competitive Advantage, Cyber Risk Governance, Secondary Data Analysis

1. Background of the Study

Over the past decade, the growth of India's startup ecosystem and digital enterprises has played a central role in the country's economic transformation. Startups operating in sectors such as fintech, edtech, e-commerce, and software services have embraced digital platforms and cloud-based technologies to scale rapidly, reach diverse markets, and operate with greater efficiency. However, this increasing reliance on digital infrastructure has also amplified cybersecurity vulnerabilities, making startups attractive targets for cybercriminals.

Traditionally, cybersecurity has been viewed as a technical or operational issue, often confined to IT departments. In startup environments where speed, innovation, and cost optimisation dominate managerial priorities, cybersecurity investments are frequently delayed or implemented only at a basic level. Such a reactive approach exposes organisations to serious risks, including financial losses, reputational damage, regulatory penalties, and loss of customer trust. In the Indian context, growing digital penetration, evolving regulatory frameworks, and rising awareness of data protection have further intensified the need for structured cybersecurity governance.

Recent cyber incidents involving Indian digital platforms have demonstrated that weak cybersecurity management has consequences that extend far beyond technical disruptions.

These incidents affect investor confidence, customer loyalty, and long-term competitiveness. As a result, cybersecurity is increasingly being recognised not merely as a defensive mechanism but as a strategic asset that supports business continuity, resilience, and differentiation in competitive digital markets.

Against this backdrop, the present study views cybersecurity through a managerial and strategic lens rather than a purely technical one. By analysing secondary data from credible sources, the study seeks to understand prevailing cybersecurity management practices, governance frameworks, and risk management strategies adopted by Indian startups and digital enterprises. The background establishes the rationale for examining cybersecurity as a key driver of organisational resilience and competitive advantage in an increasingly uncertain digital environment.

1.1 Statement of the Problem

Indian startups and digital enterprises operate in a highly dynamic, technology-intensive business environment where digital platforms and data-driven operations are central to value creation. While this digital dependence has enabled rapid innovation and growth, it has also heightened exposure to cyber threats such as data breaches, ransomware attacks, system intrusions, and service disruptions. Despite the increasing frequency and severity of cyber incidents,

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cybersecurity in many Indian startups continues to be treated as a technical or compliance-related function rather than as a strategic management priority.

A major concern is the lack of structured cybersecurity governance frameworks, particularly during the early and growth stages of startups. Limited financial resources, inadequate managerial awareness, and an excessive focus on speed-to-market often result in fragmented security practices, insufficient risk assessment, and reactive incident response mechanisms. This managerial neglect increases operational and financial risks and undermines organisational resilience, stakeholder confidence, regulatory compliance, and long-term sustainability.

Although existing literature addresses the technical aspects of cybersecurity, there is limited research examining cybersecurity from a management and strategic perspective in the context of Indian startups and digital enterprises. The absence of synthesised empirical insights based on secondary data further widens this research gap. Addressing this gap is essential to support informed managerial decision-making, effective policy formulation, and the development of context-specific cybersecurity strategies for India's evolving digital economy.

1.2 Objectives of the Study

The objectives of the study are:

1. To examine the evolving cybersecurity threat landscape faced by Indian startups and digital enterprises in the context of rapid digitalisation.
2. To analyse existing cybersecurity management practices and governance frameworks adopted by Indian startups and digital enterprises using secondary data.
3. To assess the role of cybersecurity management in enhancing organisational resilience, particularly in terms of preparedness, response, and recovery.
4. To evaluate cybersecurity as a strategic resource contributing to competitive advantage in Indian startups and digital enterprises.
5. To identify key managerial, organisational, and regulatory challenges affecting effective cybersecurity implementation in the Indian startup ecosystem.
6. To synthesise best practices and strategic insights from existing literature, industry reports, and policy documents.

2. Review of Literature

2.1 Cybersecurity Management as a Strategic Function

Earlier studies viewed cybersecurity primarily as a technical function focused on protecting information systems through tools such as firewalls, encryption, and access controls. Recent literature, however, emphasises that cybersecurity has evolved into a strategic management and governance issue that requires active involvement of top management and alignment with organisational goals. When cybersecurity is treated as an isolated IT activity, organisations tend to adopt fragmented and reactive security measures, thereby increasing exposure to cyber risks. Management-focused research highlights the importance of leadership commitment,

policy formulation, and governance mechanisms in ensuring effective cybersecurity implementation.

2.2 Cybersecurity Management and Organisational Resilience

Organisational resilience refers to an organisation's ability to anticipate, absorb, respond to, and recover from disruptive events, including cyber incidents. Studies suggest that effective cybersecurity management strengthens resilience by improving preparedness, response capability, and recovery mechanisms. Organisations with structured cybersecurity governance experience reduced operational downtime and faster recovery following cyberattacks. For digital enterprises, cybersecurity readiness is particularly critical, as uninterrupted digital operations are essential for business continuity.

2.3 Cybersecurity Challenges in Startups and Digital Enterprises

Startups face distinct cybersecurity challenges due to limited budgets, shortages of skilled professionals, and strong emphasis on rapid innovation. Research indicates that startups often perceive cybersecurity investments as cost centres rather than strategic enablers. Indian studies reveal that many startups lack formal cybersecurity policies, governance frameworks, and systematic risk assessment practices, despite increasing digital dependence. This reactive approach significantly increases vulnerability to cyber threats.

2.4 Cybersecurity and Competitive Advantage

From a strategic management perspective, cybersecurity is increasingly recognised as a source of competitive advantage. Strong cybersecurity practices enhance customer trust, protect brand reputation, and support regulatory compliance. Organisations that demonstrate resilience against cyber threats are better positioned to sustain operational continuity and attract investors and customers. For startups, cybersecurity-driven trust is particularly important for long-term sustainability and growth.

2.5 Indian Context of Cybersecurity Management

India's rapid digitalisation across multiple sectors has expanded the national cyber threat landscape. While Indian studies largely focus on technical, legal, and policy dimensions of cybersecurity, relatively limited attention has been given to managerial and strategic aspects. Doctoral research highlights persistent gaps in cybersecurity governance, awareness, and management integration within digital enterprises, reinforcing the need for strategic analysis in the Indian startup context.

2.6 Research Gap

The literature review reveals limited integrated research linking cybersecurity management, organisational resilience, and competitive advantage, particularly in India. Most existing studies emphasise technical or regulatory concerns, leaving a clear gap in understanding cybersecurity as a

managerial imperative for startups and digital enterprises. This gap justifies the present study

3. Research Methodology

3.1 Research Design

The present study adopts a **descriptive and analytical research design**. The descriptive approach is used to understand existing cybersecurity management practices, organisational resilience, and competitive advantage in Indian startups and digital enterprises, while the analytical approach is employed to examine relationships among these variables using secondary data.

3.2 Nature of the Study

The study is **empirical in nature** and is based exclusively on **secondary data**. It relies on previously published studies, reports, and databases to analyse cybersecurity management as a strategic imperative in Indian startups and digital enterprises.

3.3 Sources of Data

The study uses secondary data collected from the following sources:

1) Academic Sources

- Peer-reviewed journals indexed in Google Scholar, Scopus, and Web of Science
- Doctoral theses accessed through **Shodhganga**

2) Government and Regulatory Reports

- Ministry of Electronics and Information Technology (MeitY)
- Indian Computer Emergency Response Team (CERT-In)
- Reserve Bank of India (RBI) cybersecurity guidelines

3) Industry and Institutional Reports

- National Association of Software and Service Companies (NASSCOM)
- Deloitte, PwC, EY cybersecurity reports
- Startup India and Digital India publications

3.4 Period of Study

The study covers secondary data published during the period **2018 to 2025**, capturing recent developments in cybersecurity management and digital enterprise growth in India.

3.5 Variables of the Study

- **Independent Variable:** Cybersecurity Management (Policies, governance mechanisms, risk management practices, incident response planning)
- **Mediating Variable:** Organizational Resilience (Preparedness, response capability, recovery ability)
- **Dependent Variable:** Competitive Advantage (Operational continuity, customer trust, regulatory compliance, sustainability)

3.6 Method of Data Analysis

Secondary data are analysed using **qualitative content analysis** and **comparative analytical techniques**. Themes related to cybersecurity management, resilience, and competitive advantage are identified, compared, and synthesised to draw meaningful inferences. Trend analysis is also employed to examine changes in cybersecurity practices and cyber threat patterns over time.

3.7 Scope of the Study

The study is confined to **Indian startups and digital enterprises** operating in digitally intensive sectors such as fintech, edtech, e-commerce, and software services. The analysis focuses on cybersecurity from a **management and strategic perspective**, rather than technical implementation.

3.8 Limitations of the Study

- The study is based solely on secondary data and does not include primary survey responses.
- Findings are dependent on the accuracy and availability of published data.
- Rapid changes in cyber threats and technologies may limit the long-term generalizability of findings.

3.9 Ethical Considerations

The study relies on publicly available secondary data and properly acknowledges all sources to avoid plagiarism. No confidential or personal data have been used in the research.

4. Data Analysis

This chapter provides a detailed analysis of secondary data related to cybersecurity incidents, management practices, organizational resilience, and competitive advantage in Indian startups and digital enterprises. The data are drawn from national cybersecurity agencies, industry threat reports, policy surveys, and recent news coverage to capture the evolving nature of cyber risks and strategic responses in India.

4.1 Overview of Secondary Data Sources

Secondary data were collected from multiple credible sources, including CERT-In reports, national threat assessments, industry surveys, and published news analyses covering developments in 2024–2026. These sources provide empirical evidence on cyber incident volumes, threat trends, organizational vulnerabilities, and strategic cybersecurity investment patterns.

Table 4.1: Major Sources of Secondary Data

Source Category	Key Institutions / Publications	Nature of Data
Government & Regulatory	CERT-In, NCRP, Ministry of Home Affairs	Incident counts, advisories, governance frameworks
Industry Reports	Seqrite, Check Point, Trend Micro, PwC	Threat data, preparedness levels, investment trends
News Reports	FICCI-EY, Times of India, Reuters	Current risk priorities, fraud outcomes, enforcement actions
Policy & Strategic Updates	Digital India initiatives	Cybersecurity strategic focus

Analytical Insights:

Using diverse secondary sources enhances the robustness and triangulation of findings related to cybersecurity threats, managerial preparedness, and enterprise resilience in the Indian digital context

4.2 Cybersecurity Incident Trends in India

The escalation of cyber threats in India is evidenced by multiple sources reporting high incident counts and sophisticated attack vectors.

Table 4.2: Reported Cybersecurity Incidents in India (2024–2025)

Source / Year	Reported Volume	Highlights
CERT-In (2025)	29.44 lakh incidents	Alerts: 1,530; Vulnerabilities: 390; Malware tool downloads: 89.55 lakh
Seqrite Cyber Threat 2026 Report	265.52 million attacks	~505 attacks per minute; education, healthcare top sectors
Check Point Software Findings	2,011 avg attacks per week per organisation in 2025	Performance risk above global average

Analytical Interpretation:

These data collectively demonstrate explosive growth in cyber incidents across organizational contexts. The sheer volume- from millions of logged incidents to millions of malicious detections — highlights the **intensifying cyber risk landscape** that Indian digital enterprises must navigate.

4.3 Emerging Threat Patterns and Technological Risk Drivers

Recent industry data reflect increasingly sophisticated attack tools and threat dynamics, including automation and AI-driven threats.

Table 4.3: Threat Dynamics in India (Recent Data)

Threat Indicator	Key Finding	Threat Indicator
AI-powered threats	Organisations reporting threat targeting	AI-powered threats
Malware & Exploits	Trojans and file infectors ~70% of attacks	Malware & Exploits
Email & Malware Ranking	India 2nd globally in email threats	Email & Malware Ranking

Analytical Interpretation:

The data reinforce that the threat landscape is no longer limited to basic malware or phishing; **advanced, AI-augmented attacks** have become prominent, requiring strategic cybersecurity responses at managerial and organizational levels.

4.4 Startup and SME Vulnerability Insights

Secondary data indicate that smaller organisations, including startups, remain disproportionately vulnerable due to financial and capability constraints.

Table 4.4: Vulnerability Factors for Startups / SMEs

Vulnerability Factor	Description	Impact
Budget constraints	Limited cyber investment	Weak defensive postures
Skill shortages	Lack of trained specialists	Longer detection and recovery times
Preparedness gaps	Low incident response capability	Greater operational disruption

Analytical Interpretation:

These vulnerability patterns align with broader literature on SME risk exposure, illustrating the **need for structured cybersecurity governance** to build organisational resilience and avoid existential threats.

4.5 Organisational Preparedness and Resilience Indicators

Empirical secondary data highlight preparedness levels and readiness gaps in Indian enterprises.

Table 4.5: Preparedness and Resilience Data

Indicator	Secondary Insight
Cyber readiness	Only 7% fully prepared to handle threats (Cisco Index, 2025)
Budget shifts	87% prioritizing AI for cyber defense (PwC)
Digital fraud handling actions	Over ₹8,189 crore cybercrime losses prevented 2021–25 (MHA)

Analytical Interpretation:

Preparedness remains a critical concern: low readiness levels suggest that many organizations lack the resilience capacity needed to absorb and recover from complex cyber disruptions.

4.6 Governance and Regulatory Compliance Analysis

National data show both regulatory engagement and gaps in governance adoption across Indian enterprises.

Table 4.6: Governance and Regulatory Engagement

Governance Element	Secondary Evidence
CERT-In Collaboration	231 audit organizations empaneled, 1,427 organizations onboarded to CSK
Alerts & Vulnerability Notices	1,530 alerts, 390 vulnerability notes (2025)
Cybercrime complaints	~23.6 lakh complaints 2021–25 (I4C)

Analytical Interpretation:

Robust institutional frameworks demonstrate governmental focus on cybersecurity governance. However, the presence of

reactive notices and vulnerability disclosures also highlights areas where enterprise governance must be strengthened.

4.7 Cybersecurity as a Source of Competitive Advantage

Secondary data also capture strategic outcomes tied to well-managed cybersecurity systems.

Table 4.7: Strategic and Competitive Indicators

Strategic Indicator	Secondary Finding
Competitive prioritisation	51% Indian business leaders identify cybersecurity as top risk (FICCI-EY 2026)
Financial loss risks	Large reported fraud increases underline financial stakes (Reuters)
Investment trends	\$14B funding for cybersecurity firms in 2025 (independent data)

Analytical Interpretation:

Increasing prioritisation of cybersecurity at the top leadership level and significant capital inflows into the security sector signal that robust cyber risk management is increasingly viewed as a **strategic enabler and competitive differentiator**.

4.8 Integrated Data Synthesis

Based on the analysed secondary data:

- 1) **Cyber Threat Volume and Complexity:** India experienced hundreds of millions of cyber incidents in recent years, with rising sophistication and automation.
- 2) **Vulnerability and Preparedness Gaps:** Organizational readiness remains low despite escalating threats, particularly among startups and SMEs.
- 3) **Governance Activity:** CERT-In and related bodies are actively issuing alerts and enhancing audit capabilities, yet compliance gaps persist at the enterprise level.
- 4) **Strategic Recognition:** Cybersecurity is increasingly recognized by top leadership as a key business risk, driving budget increases and strategic prioritization.

4.9 Conceptual Interpretation Based on Updated Data

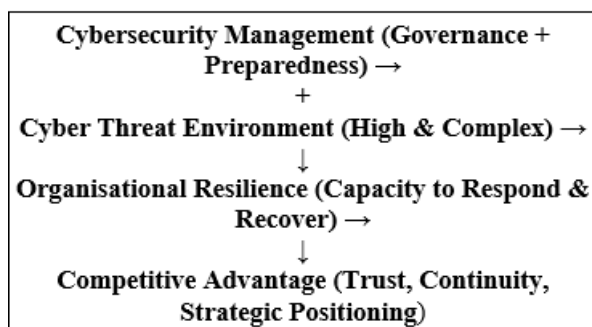


Figure 4.1: Cybersecurity Management to Competitive Advantage Framework (Validated by Secondary Data)

Interpretive Note:

The updated secondary data reinforce the conceptual framework by demonstrating that proactive cybersecurity management- in the face of rising threats- enhances organisational resilience and contributes to competitive advantage

5. Major Findings of the Study

Based on the analysis of secondary data, the following major findings have emerged:

5.1 Rising Cybersecurity Threat Landscape in India

The study finds a sharp and sustained increase in cybersecurity incidents in India, with millions of cyber events reported annually. The data indicate that cyber threats have evolved from basic phishing and malware attacks to highly sophisticated, automated, and AI-driven attacks. This trend significantly increases the risk exposure of startups and digital enterprises that rely heavily on uninterrupted digital operations.

5.2 Disproportionate Vulnerability of Startups and Digital Enterprises

The findings reveal that cyberattacks due to limited financial resources, lack of skilled cybersecurity personnel, and absence of formal cybersecurity governance frameworks disproportionately target startups and small digital enterprises. Many startups prioritise rapid growth and innovation over cybersecurity investments, leading to reactive rather than preventive security practices.

5.3 Cybersecurity Management as a Determinant of Organisational Resilience

The study finds a strong association between structured cybersecurity management practices and higher levels of organisational resilience. Enterprises with formal policies, governance mechanisms, incident response plans, and employee awareness programmes demonstrate faster recovery, reduced operational downtime, and lower reputational damage following cyber incidents.

5.4 Governance and Compliance Gaps in Digital Enterprises

Secondary data indicate that despite the presence of regulatory guidelines and institutional support mechanisms in India, compliance levels among startups and digital enterprises remain moderate to low. Weak implementation of risk assessment, incident reporting, and policy documentation undermines organisational preparedness and resilience.

5.5 Cybersecurity as a Source of Competitive Advantage

The findings establish that cybersecurity management contributes to competitive advantage by enhancing customer trust, ensuring operational continuity, supporting regulatory compliance, and strengthening investor confidence. Cybersecurity-resilient enterprises are better positioned to sustain long-term growth in competitive digital markets.

6. Conclusions of the Study

Based on the findings, the following conclusions are drawn:

- 1) Cybersecurity has emerged as a **strategic management imperative** rather than a purely technical function in the Indian digital ecosystem.

- 2) Indian startups and digital enterprises operate in a **high-risk cyber environment**, making proactive cybersecurity management essential for survival and growth.
- 3) Effective cybersecurity management significantly enhances **organisational resilience**, enabling enterprises to anticipate, respond to, and recover from cyber disruptions.
- 4) Organisational resilience acts as a **critical mediating factor** linking cybersecurity management with competitive advantage.
- 5) Enterprises that integrate cybersecurity into governance and strategic decision-making are more likely to achieve **sustainable competitive advantage** in the long run.

Thus, the study validates the proposed conceptual framework that positions cybersecurity management as a driver of organisational resilience and competitive advantage in Indian startups and digital enterprises.

7. Recommendations of the Study

Based on the conclusions, the following recommendations are proposed:

7.1 Managerial Recommendations

- Startups and digital enterprises should integrate cybersecurity into top-level management and governance structures.
- Formal cybersecurity policies, risk assessment frameworks, and incident response plans should be developed and periodically reviewed.
- Regular employee training and awareness programmes should be conducted to reduce human-related cyber vulnerabilities.

7.2 Strategic Recommendations

- Cybersecurity should be treated as a strategic investment rather than a cost centre, particularly for digitally intensive startups.
- Enterprises should adopt resilience-oriented cybersecurity approaches focusing on preparedness, response, and recovery.
- Collaboration with cybersecurity service providers and industry associations should be encouraged to compensate for internal skill shortages.

7.3 Policy and Regulatory Recommendations

- Government agencies and regulators should provide targeted cybersecurity support programmes for startups and SMEs.
- Simplified compliance frameworks and awareness initiatives can improve governance adoption among emerging enterprises.
- Incentives for cybersecurity investment and audits may encourage proactive adoption among startups.

7.4 Academic Recommendations

- Future research may incorporate primary data through surveys or interviews to empirically validate the relationships identified in this study.
- Comparative studies across countries or sectors may provide deeper insights into cybersecurity resilience models.
- Longitudinal studies can help assess the evolving impact of cybersecurity management on competitive advantage.

8. Scope for Further Research

In addition to the existing scope, future research may consider the following areas:

- 1) **Primary Data-Based Validation:** Future studies may collect primary data from startup founders, CIOs, and cybersecurity managers to empirically validate the relationships between cybersecurity management, organisational resilience, and competitive advantage identified in this study.
- 2) **Sector-Specific Analysis:** Further research may focus on sector-wise comparisons (such as fintech, healthtech, edtech, SaaS, and e-commerce) to examine how cybersecurity priorities and resilience strategies differ across industries.
- 3) **Startup Life-Cycle Perspective:** Studies may explore how cybersecurity management practices evolve across different stages of startup development, including early-stage, growth-stage, and mature digital enterprises.
- 4) **Quantitative Modelling and Index Development:** Future research could develop quantitative models or cybersecurity resilience indices to measure the impact of cybersecurity governance on business performance and risk outcomes.
- 5) **Role of Leadership and Organisational Culture:** Researchers may examine the influence of top management commitment, leadership styles, and organisational culture on cybersecurity adoption and resilience-building in startups.
- 6) **Human and Behavioural Dimensions of Cybersecurity:** Further studies may analyse employee awareness, training effectiveness, and human-related vulnerabilities to understand their role in strengthening cybersecurity resilience.
- 7) **Comparative International Studies:** Comparative research between Indian startups and those in other emerging or developed economies may provide insights into best practices, regulatory effectiveness, and contextual differences in cybersecurity management.
- 8) **Impact of Emerging Technologies:** Future research may assess how emerging technologies such as artificial intelligence, blockchain, and zero-trust architectures influence cybersecurity management and resilience in digital enterprises.
- 9) **Policy Impact Assessment:** Studies may evaluate the effectiveness of Indian cybersecurity regulations and government initiatives in improving cybersecurity preparedness among startups and SMEs.
- 10) **Longitudinal Research Designs:** Long-term studies could track changes in cybersecurity maturity, resilience, and competitive positioning over time to better understand causal relationships.

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