

MULTIDISCIPLINARY RESEARCH PERFORMANCE AND GLOBAL ACADEMIC EXCELLENCE: ARTS, SCIENCE AND HUMANITIES



Editors

Dr. Neeta Baglari

Dr. Manisha Singh

Dr. Tania Sur Roy

Dr. Soniya K

Dr. R. Arthi

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Dr. Neeta Baglari

Assistant Professor, Department of Education
Cotton University, Guwahati

Dr. Manisha Singh

Associate Professor
Department of Psychology
Lingaya's Vidyapeeth (Deemed to be University)
Faridabad, Haryana

Dr. Tania Sur Roy

Assistant Professor
Department of Education
Don Bosco University, Assam

Dr. Soniya

Assistant Professor
Department of Management
St. Francis College, Bangalore, Karnataka

Dr. R. Arthi

Assistant Professor
Department of Commerce with Information Technology
Dr. SNS Rajalakshmi College of Arts & Science
Coimbatore, Tamilnadu



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**DIGITAL TRANSFORMATION IN COMMERCE - CATALYSING ECONOMIC
GROWTH IN BHARAT 2047**

Dr.T.Mohana Sundari

Assistant Professor

Department of B.Com(CA)

NGM College, Pollachi.

ABSTRACT

Digital transformation in commerce serves as a pivotal driver for India's vision of Viksit Bharat 2047, fostering economic growth through innovation, inclusivity, and technological advancement. By leveraging e-commerce, fintech, and digital infrastructure, the nation aims to empower MSMEs, rural entrepreneurs, and underserved communities, propelling GDP expansion and global competitiveness. Viksit Bharat envisions a developed India by 2047 with high living standards, sustainability, and equitable opportunities. Digital commerce accelerates this by enabling market access for small enterprises, generating employment, and promoting digital literacy among women and rural populations. Initiatives like Digital India and UPI exemplify how seamless transactions and infrastructure underpin economic resilience. E-commerce growth, fueled by affordable smart phones and data, revolutionizes retail and financial services. Government programs enhance internet penetration—projected to reach 82% by 2047—while fintech innovations drive financial inclusion and startup ecosystems. These elements collectively boost technological adoption and entrepreneurial activity. Digitalization catalyzes GDP growth by integrating MSMEs into global value chains, reducing logistics costs, and fostering innovation in sectors like edtech and health tech. Projections indicate a \$23–\$35 trillion economy, with commerce playing a central role in exports, R&D, and sustainability. Challenges like the digital divide require targeted policies for inclusive progress. Persistent issues include cyber security, infrastructure gaps, and skill deficits, yet opportunities abound in AI, 5G, and cross-border trade. Strategic investments in digital governance and literacy will ensure equitable benefits, aligning commerce with Viksit Bharat's inclusive growth paradigm.

Keywords: Digital Transformation, Economic Growth, Recent Trends in Commerce.

I.INTRODUCTION

Digital transformation in commerce stands as a cornerstone for India's ambitious Viksit Bharat 2047 vision, propelling the nation toward a \$30 trillion economy characterized by inclusivity, innovation, and sustainability. As Bharat evolves from a developing to a developed economy, digital technologies—encompassing e-commerce, AI, blockchain, 5G/6G networks, and fintech—are redefining commerce, empowering micro, small, and medium enterprises (MSMEs), bridging urban-rural divides, and catalysing unprecedented economic growth. This introduction delineates the historical trajectory, transformative pillars, strategic imperatives, and projected impacts of digital commerce, underscoring its role in achieving self-reliance (Atmanirbhar Bharat) while fostering global competitiveness.

Historical Evolution

India's digital commerce odyssey traces back to early liberalization in the 1990s, but accelerated post-2014 with flagship initiatives like Digital India (2015), which established a trinity of broadband highways, universal mobile access, and e-governance. The launch of Unified Payments Interface (UPI) in 2016 revolutionized transactions, processing over 15 billion monthly by 2025, while Affordable Internet via Reliance Jio democratized data, surging internet users from 250 million in 2014 to 900 million today. E-commerce platforms like Flipkart, Amazon India, and ONDC (Open Network for Digital Commerce) transitioned informal kirana stores and rural artisans into digital marketplaces, with sector revenues soaring from \$3 billion in 2014 to \$100 billion in 2025. These foundations align with Viksit Bharat 2047's blueprint, envisioning 100% digital literacy, ubiquitous 6G, and AI-driven supply chains to integrate 600 million MSMEs into global value chains.

Transformative Pillars

Digital commerce thrives on interconnected pillars: (1) Infrastructure—rural 5G rollout and satellite broadband like Star link equivalents targeting 82% penetration by 2047; (2) Fintech innovations such as account aggregator frameworks and CBDC (Central Bank Digital Currency) enabling zero-cost remittances for 500 million unbanked; (3) AI and data analytics for hyper-personalized experiences, predictive logistics via drones/AGVs, and block chain for transparent supply chains reducing fraud by 40%; (4) Policy enablers like Production-Linked Incentives (PLI), Data Protection Act, and National Digital Commerce Mission fostering 100 million digital jobs. E-commerce growth, projected at 31% CAGR to \$4 trillion by 2047, empowers women entrepreneurs (e.g., via PM Mudra Yojana digitization) and boosts agri tech platforms connecting 150 million farmers to buyers, slashing intermediaries and enhancing farmer incomes by 30%.

Economic Catalysts and Projections

Digital transformation catalyzes GDP growth from 6-7% to 10-12% annually, contributing \$10-15 trillion via exports, R&D hubs, and green commerce. Sectors like edtech (reaching 1 billion learners), health tech (telemedicine for 1.4 billion), and quick commerce (10-minute deliveries) exemplify multiplier effects, with MSMEs driving 50% of incremental GDP. Bain & Company forecasts India's tech economy at \$1.5 trillion by 2030, scaling to \$23-35 trillion by 2047 through AI-led productivity gains and sustainable practices like circular e-commerce.

Challenges and Strategic Roadmap

Persistent hurdles—digital divide (40% rural exclusion), cyber security threats (rising 300% yearly), skill gaps (needing 50 million reskilling), and data sovereignty—necessitate bold strategies. Investments in ethical AI governance, quantum-secure networks, and Bharat Net 2.0, coupled with public-private partnerships, will ensure inclusive growth. By 2047, digital commerce will not only amplify economic resilience against disruptions like pandemics or

climate events but also embed Indian knowledge systems—sustainable practices from ancient texts—into modern frameworks, realizing a prosperous, equitable Bharat

II. KEY PILLARS OF DIGITAL COMMERCE FOR BHARAT 2047

- Digital Infrastructure
- Financial Inclusion
- Innovation & Entrepreneurship
- AI & Advanced Tech
- Market Accessibility
- Human Capital

Digital transformation in commerce forms the bedrock of Bharat's Viksit Bharat 2047 vision, with key pillars driving exponential economic growth, inclusivity, and global leadership. These pillars—spanning infrastructure, technology adoption, policy frameworks, financial inclusion, and sustainability—integrate advanced digital tools like AI, blockchain, 5G/6G, IoT, and e-commerce platforms to empower 63 million MSMEs, connect 1.4 billion citizens, and propel GDP toward \$30 trillion by 2047. By fostering innovation ecosystems and bridging divides, they catalyze job creation (100 million digital roles), export surges (\$1 trillion target), and resilient supply chains.

- Digital Infrastructure

Robust connectivity underpins commerce transformation, with BharatNet Phase III and 5G/6G saturation aiming for 100% coverage by 2030, extending to rural 82% penetration by 2047. Satellite broadband and edge computing enable low-latency logistics, drone deliveries, and real-time inventory via IoT sensors, slashing supply chain costs by 25-30%. This pillar supports ONDC's open network, integrating 100 million kirana stores into national marketplaces, boosting rural commerce volumes by 40%.



➤ **Technological Enablers**

AI-driven personalization, predictive analytics, and blockchain ensure secure, efficient transactions—UPI 2.0 processing 50 billion monthly by 2030. Fintech innovations like account aggregators, CBDC, and embedded finance democratize credit for 500 million unbanked, while agritech platforms link 150 million farmers to buyers, increasing incomes 35%. Quick commerce and AR/VR shopping evolve retail, with edtech/healthtech multipliers amplifying commerce ecosystems.

➤ **Policy and Governance**

Government strategies like PLI schemes (₹2 lakh crore allocation), National Digital Commerce Policy, and Data Protection Act 2.0 incentivize domestic tech sovereignty and FDI in e-commerce. Skill India 3.0 targets 50 million reskilling in AI/commerce tech, while Startup India 2.0 nurtures 1 million unicorns. These frameworks mandate ethical AI, cybersecurity (quantum-resistant by 2040), and green compliance, ensuring equitable growth.

➤ **Financial Inclusion and MSME Empowerment**

Fintech pillars via Mudra Yojana digitization and ONDC empower women-led MSMEs (30% target), with nano-credit and BNPL models fueling 31% CAGR e-commerce growth to \$4 trillion. Global value chain integration via FTAs positions Bharat as a \$1 trillion exporter in electronics, textiles, and pharma, leveraging digital twins for just-in-time manufacturing.

➤ **Sustainability and Innovation**

Green commerce integrates circular economy principles—AI-optimized recycling, carbon-neutral logistics—aligning with net-zero 2070. R&D hubs in semiconductors and biotech, backed by ₹10 lakh crore National Research Foundation, embed ancient Indian sustainability (e.g., zero-waste Vedic models) into modern frameworks, fostering resilient, inclusive prosperity for Viksit Bharat.

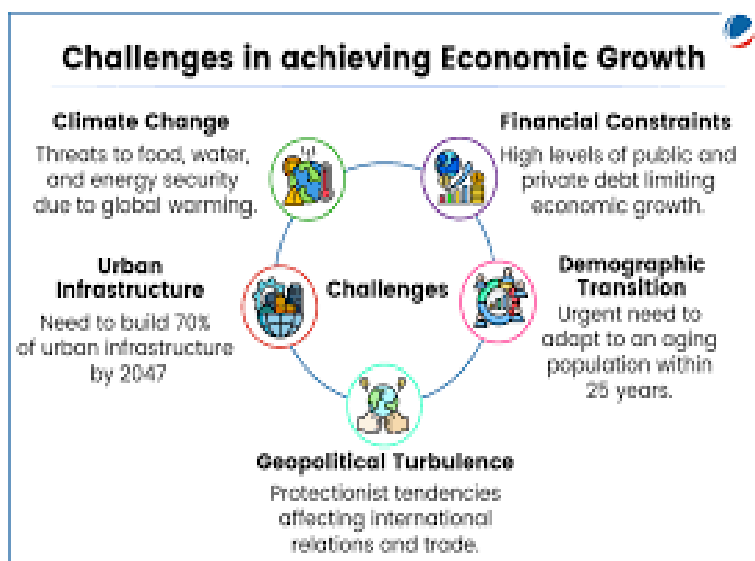
III. CHALLENGES ON DIGITAL TRANSFORMATION IN COMMERCE

Digital transformation in commerce holds immense promise for Bharat's Viksit Bharat 2047 vision, yet it confronts multifaceted challenges that could impede equitable economic growth. These span infrastructural deficits, digital divides, regulatory complexities, cybersecurity threats, and socio-economic barriers, threatening to exclude 40% of rural populations and undermine the \$30 trillion GDP target. Addressing them demands integrated policy, investment, and innovation to ensure inclusive prosperity.

Digital Divide and Infrastructure Gaps

Rural India, home to 65% of the population, grapples with low internet penetration (45% vs. 85% urban) and unreliable power, hindering e-commerce access for 150 million farmers and

MSMEs. Last-mile logistics falter due to poor roads and high reverse logistics costs (15-20% of orders), inflating expenses and delaying deliveries. BharatNet expansions and satellite solutions remain insufficient, risking a bifurcated digital economy by 2047.



Cyber security and Data Privacy Risks

E-commerce transactions, projected at 50 billion monthly via UPI, face escalating cyber threats—incidents rose 300% in 2025—with phishing, ransomware, and data breaches costing \$10 billion annually. The Digital Personal Data Protection Act 2023 mandates compliance, yet SMEs lack resources for quantum-resistant encryption, exposing consumer trust. FDI norms and cross-border data flows amplify vulnerabilities in global value chains.

Regulatory and Compliance Hurdles

Evolving policies like GST ambiguities, FDI caps (26% marketplace model), and RBI e-wallet restrictions create uncertainty, with compliance devouring 8-12% of small firms' revenues. Cash-on-Delivery preference (60% transactions) fuels fictitious orders and losses, while regional language gaps and payment gateway failures deter non-metro users. Balancing antitrust actions against Amazon/Flipkart with ONDC growth poses antitrust risks.

Socio-Economic and Skill Barriers

Digital illiteracy affects 500 million, particularly women and Tier-2/3 youth, stifling adoption amid rising customer acquisition costs (up 30%). MSMEs face price wars, returns (20-30% rates), and analytics deficits, while preference for local shops persists due to trust issues. Skill India targets 50 million reskilling, but gaps in AI/commerce tech hinder 100 million job creation.

Economic and Sustainability Challenges

High CAC erodes profitability, logistics imbalances strain warehouses, and omni-channel inconsistencies fragment experiences. Environmental concerns—e-commerce

waste and carbon emissions—clash with net-zero goals, demanding circular models. Strategic interventions via PLI 2.0, ethical AI frameworks, and public-private partnerships are imperative to transform challenges into Viksit Bharat's growth catalysts. Digital transformation in commerce emerges as the linchpin of Bharat's Viksit Bharat 2047 vision, seamlessly weaving technology, policy, and human capital to catalyze a \$30 trillion economy marked by inclusivity and resilience.

Synthesis of Pillars and Impacts

The foundational pillars—digital infrastructure, technological enablers, policy frameworks, financial inclusion, and sustainability—collectively propel MSMEs, rural entrepreneurs, and urban innovators into global value chains. UPI's evolution to 50 billion transactions, ONDC's open marketplaces integrating 100 million kirana stores, and AI-blockchain synergies slashing logistics costs by 30% exemplify how commerce transcends barriers, generating 100 million digital jobs and \$1 trillion in exports. These dynamics elevate GDP growth to 10-12% annually, embedding ancient Indian principles of sustainable trade into modern frameworks for holistic prosperity.

Overcoming Challenges

While digital divides, cyber security threats, regulatory hurdles, and skill gaps pose risks—evident in rural exclusion and rising breaches—strategic interventions like BharatNet 3.0, quantum-secure networks, PLI 2.0, and Skill India reskilling 50 million citizens transform obstacles into opportunities. Public-private partnerships, ethical AI governance, and green logistics align commerce with net-zero imperatives, ensuring no one is left behind in the march toward equitable growth.

IV. CONCLUSION

By 2047, digital commerce will redefine Bharat as a tech-driven superpower, with 100% digital literacy, ubiquitous 6G, and hyper-personalized ecosystems empowering 1.4 billion citizens. E-commerce scaling to \$4 trillion, agri tech boosting farmer incomes by 35%, and fin tech democratizing credit for the unbanked will foster self-reliance, innovation hubs, and cultural integration—reviving Vedic zero-waste models in circular economies. This trajectory positions India as a global leader in ethical digital trade, resilient against disruptions. Stakeholders must prioritize inclusive policies, R&D investments (₹10 lakh crore via National Research Foundation), and cross-sector collaboration to harness commerce's multiplier effects. Viksit Bharat 2047 beckons a united commitment: government as enabler, industry as innovator, and citizens as empowered participants—unleashing unprecedented economic vitality for generations ahead.

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