

# ROLE OF BLOCKCHAIN IN VIKSHIT BHARAT 2047

**Digital South**

South India's no.1 Blockchain Education Trust



**DIGITAL SOUTH TRUST**

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## Abstract

India is at a crucial juncture in its digital transformation journey. Blockchain and Web3 technologies are emerging as key drivers of economic growth, employment, and innovation. This paper explores the current state of blockchain adoption in India and its impact across various sectors. It also outlines the challenges in education and policy while offering strategies to align blockchain adoption with the national development vision for 2047.



## Introduction

Web3, the decentralized web, is redefining digital infrastructure through blockchain, smart contracts, and decentralized finance (DeFi). With a robust developer ecosystem and hundreds of Web3 startups, India is poised to lead globally. However, realizing this vision requires resolving regulatory uncertainties, bridging the skill gap, and building infrastructure. Blockchain can significantly contribute to India's ambition of becoming a developed nation by 2047, supporting transparent governance and digital empowerment.





**Sudhakar Lakshmanaraja**  
Founder - Digital South  
Trust

## About Digital South Trust

Digital South Trust is a non-profit organization focusing on Blockchain Education, committed to promoting awareness, education, and skill development in blockchain technology. The Trust upholds values of inclusivity, innovation, integrity, and sustainability, leveraging technology to drive social impact. Through its team of dedicated volunteers, Digital South is actively working towards making India a global leader in blockchain education and application.

## Mission and Vision

### → Mission

To educate 10 crore Indians about blockchain technology and its use cases through strategic partnerships and awareness initiatives.

### → Vision

To create equal opportunities through blockchain education, innovation, and technology-driven growth, aligned with Vikshit Bharat 2047.



# Blockchain: A Technological Foundation

Blockchain is a distributed ledger technology that allows data to be stored across multiple nodes in a network. Each block is cryptographically linked to the previous block, ensuring data integrity. Its decentralized architecture eliminates the need for intermediaries and enables trustless transactions.



## Success Stories

### Polygon:

- India's first multi-billion-dollar Web3 company, Polygon leads globally in blockchain scaling and innovation.

### ZebPay:

- A trailblazer among India's digital asset platforms, ZebPay has influenced national policy and adoption of blockchain technology.





# WEB 3.0



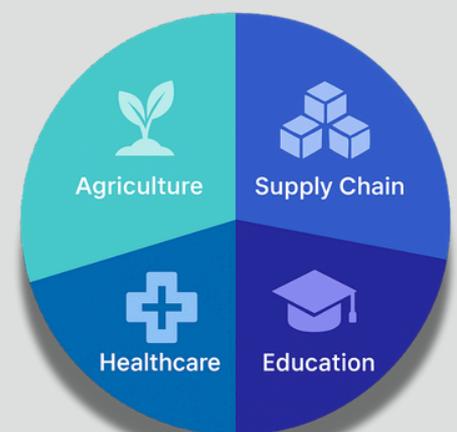
## Web3 in India: Current Landscape

India hosts over 1,000 Web3 startups and contributes 12% of global Web3 talent. Investment in blockchain has surpassed \$3 billion since 2020, with innovations in DeFi, NFTs, digital identity, and supply chain. Leading Indian blockchain companies like Polygon, CoinDCX, and Instadapp are driving global standards and showcasing India's leadership in Web3.



## Sectoral Impact of Blockchain

- 1. Agriculture:** Enables supply chain transparency and fair pricing.
- 2. Supply Chain:** Boosts traceability and reduces counterfeit risk.
- 3. Healthcare:** Enhances patient data security and system interoperability.
- 4. Education:** Introduces verifiable digital credentials and counters fraud.





## Web3 and Financial Inclusion

Tokenization allows real-world assets to be represented digitally, enabling fractional ownership and 24/7 global trading. Platforms like RealT, Uniswap, and Goldfinch are democratizing access to investments and credit, especially for underserved markets.



## Crypto Regulation and Taxation



India's 1% TDS on crypto transactions is impacting liquidity and driving users to offshore exchanges. A balanced, clear, and progressive tax framework is needed to retain innovation, capital, and talent in the domestic ecosystem



## Education and Workforce Development

India must urgently modernize its education system to include blockchain, smart contracts, cryptography, and tokenomics. Collaborative programs between academia and industry can prepare a future-ready workforce. Digital South Trust plans to establish over 50 Web3 incubation centers and blockchain labs across 30+ institutions by 2027.





## Key Challenges

- Regulatory Ambiguity: Hinders innovation and drives talent abroad.
- Educational Barriers: Limited awareness, outdated curricula, and lack of infrastructure.
- Industry Gaps: Few incubators and difficulty in accessing enterprise funding.



## Recommendations

- Introduce clear, blockchain-friendly regulations.
- Offer tax incentives for blockchain startups.
- Simplify compliance to ease startup registration.
- Support academic-industry partnerships for skill development.
- Promote use cases in agriculture, governance, and rural development.
- Provide government funding for blockchain research and development.
- Integrate blockchain technology into the academic curriculum and higher education institutions.





# Research Recommendations

## India's \$5-Trillion-GDP Dream and Web3



### Mr. Kamlesh Nagware

Co-Founder FSV Capital/FSV Labs, Co-Lead LFDT India Chapter, Mentor at Apiary Blockchain COE, Govt. of India/STPI

- India is home to 450+ Web3 startups with over \$1.3 billion in investments in the last two years.
- Web3 talent in India is expanding rapidly, with the country ranking third globally and expected to grow by 120% in the next two years.
- Open-source blockchain solutions are revolutionizing digital identity, CBDCs, and public infrastructure.
- India's Web3 innovation is being driven by industry leaders like Polygon and government-backed initiatives, positioning the nation as a global digital economy leader by 2050.

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## Web3 and Its Impact on Education and Industry



### Dr. G. Kavitha

Associate Professor & Head, Sri Ramakrishna College of Arts & Science

- Web3 represents a radical transformation of legacy digital architecture, paving the way for new business models and decentralized applications.
  - Many colleges face challenges in adopting Web3 due to limited awareness, infrastructure constraints, and a lack of industry collaboration.
  - Opportunities include leveraging strong STEM programs, industry partnerships, and government support to establish Web3 labs and research initiatives.
  - Strategies for overcoming challenges include faculty training, incubation centers, and blockchain-based use cases in industries such as textiles and agriculture.
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# Research Recommendations

## Web3 and Tokenization Are Reshaping the Future of Finance



**Mr. Lalith Krishnan**

Director of Growth and Partnership - Digital South

- Web3 is changing the way we handle data, value, and ownership — and at the core of this shift is tokenization. By converting assets like real estate, stocks, and intellectual property into blockchain-based tokens, we unlock global, 24/7 trading and fractional ownership, making investment more accessible than ever.
- Platforms like RealT let users invest in real estate using stablecoins, while Uniswap and Centrifuge show how smart contracts and tokenization can automate finance without middlemen. This means faster, transparent, and trustless transactions.
- What excites me most is the impact on financial inclusion. Projects like Goldfinch offer crypto-backed loans to entrepreneurs in emerging markets—no collateral needed.
- Web3 and tokenization together are building a more open, efficient, and inclusive economy—and this is just the beginning.



**Mr. Arjun Vijay G**

Founder of Giottus Crypto Exchange

## India Needs Clear Crypto Tax Rules

- In India, a significant number of crypto traders are facing challenges due to the 1% TDS (Tax Deducted at Source) imposed on each crypto transaction. This taxation structure has become a major concern for active traders, as it affects liquidity and reduces the overall trading efficiency. As a result, we are witnessing a growing trend of users shifting to offshore exchanges where such stringent tax measures do not apply.
- This migration not only impacts the domestic crypto exchange ecosystem but also leads to a potential loss of revenue and user data for the country. To build a thriving and transparent digital asset economy, the government should consider reducing the TDS rate and provide greater clarity on the overall taxation framework related to crypto assets.
- Clear and progressive regulations can ensure that India retains its talent, innovation, and capital in the crypto space, rather than pushing it to foreign platforms.



# Research Recommendations



## Dr. Mahendra Kumar Shrivastava

PhD – CS (Blockchain Technologies), SMIEEE  
Founder, India Quantum Labs | Co-Founder, GWS Defence  
Former Project Manager, Center for Smart Governance, Govt. of Karnataka

## India's Web3 Opportunity: Let's Build the Future, Not Watch It Happen

- India is at a pivotal moment. Web3 — the decentralized internet built on blockchain and user ownership — is not just a technological upgrade, it's a chance to redefine how we create, share, and govern in the digital world.
- With the world's largest youth population, top-tier tech talent, and a thriving startup ecosystem, India is uniquely positioned to lead the Web3 revolution. But the clock is ticking. While countries like Singapore and the UAE push forward, we're still held back by regulatory ambiguity, talent flight, and a lack of public awareness.
- Let me be clear: Web3 is more than cryptocurrency. It's about giving individuals ownership over their data, creators direct access to earnings, and communities the tools to govern themselves. From smart contracts in governance to NFTs in culture and DeFi in finance — the possibilities are endless.
- But we must act now. We need:
  1. Clear regulations and fair tax policies,
  2. National Web3 skilling programs,
  3. Support for homegrown startups,
  4. Blockchain adoption in governance,
  5. And incentives for creators, farmers, and innovators to thrive.
- Web3 can contribute up to \$200 billion to India's economy and create millions of jobs. More importantly, it can empower every citizen — from urban developers to rural farmers — with tools for trust, inclusion, and ownership.
- We missed the first internet wave. We cannot afford to miss this one.
- Let India build the next internet — open, inclusive, and truly ours.



# Research Recommendations



**Mr Vedang Vatsa,**  
Founder, Hashtag Web3

## India's Web3 Revolution: Talent, Opportunity, and the Road Ahead

- India is fast becoming a global Web3 hub, driven by a booming developer community and innovative startups. In 2024, the country contributed 12% of the world's Web3 developers and led with 17% of new entrants.
- Young talent, especially those aged 18–22, is fueling this rise—supported by strong education initiatives and a thriving hackathon culture. Indian developers are now part of global projects, with remote work unlocking roles across engineering, product, research, and community.
- This borderless world brings strong earning potential—senior Indian Web3 developers earn \$80,000+ annually, with top roles offering more. Yet, local pay still lags global standards, showing room for growth.
- To truly lead, India must improve tax policies and banking access for Web3 professionals—steps that can solidify our position as a global Web3 leader.



**Dr. Abraham**  
Associate Professor  
School of Electronics  
Engineering  
VIT Chennai

## Web3: Empowering India's Digital Future

- I see Web3 not just as a tech trend, but as a powerful driver of digital empowerment and economic transformation. Its decentralized nature lets individuals own their data, interact trustlessly, and build value without central intermediaries.
- India, with its talent and entrepreneurial spirit, is well-placed to lead this revolution. We've already made strides in blockchain, DeFi, and digital identity—but to advance further, we need regulatory clarity, strong public-private partnerships, and a national push for digital upskilling.
- For Vikshit Bharat 2047, Web3 must be a cornerstone. It can enable transparent governance, reduce inefficiencies, and create inclusive opportunities. The time to act is now—India must not just join the Web3 era, but lead it.

## Call to Action

Blockchain and Web3 offer a transformative path for India's digital future. Digital South Trust invites all stakeholders—governments, institutions, innovators—to collaborate in:

- Promoting blockchain awareness and education.
- Establishing a supportive policy framework.
- Enabling Indian startups to scale globally.



India can lead the next internet revolution by fostering an open, inclusive, and innovation-driven ecosystem. Web3 and blockchain can power citizen empowerment, transparent governance, and sustainable development.

Blockchain is more than just a technology—it is a tool for systemic transformation. By aligning innovation with inclusive policy and education, India can emerge as a global blockchain powerhouse by 2047.





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# Let's Work Together



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