



The Rise of InsurTech Start-ups in India: A Case Study on Innovation and Market Penetration Strategies

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Abstract

India's insurance sector has long had low participation and old-school sales methods. Now, InsurTech startups are changing that with tech like AI, blockchain and data analytics. They create new products, speed up processes, and improve customer service, fixing issues like complexity and poor access. This paper looks at InsurTech's growth in India, spotlighting companies like Acko General Insurance and Toffee Insurance. These use mobile apps first, charge based on usage (via telematics), and offer cheap micro-insurance for underserved groups. The market is booming: worth \$0.90 billion in 2024, expected to hit \$11.90 billion by 2033, growing at 29.10% yearly. This is helped by rules like IRDAI's testing sandbox and requirements for built-in insurance. Using case studies, we break down their strategies: AI for personalized plans, instant approvals, and local products. They partner with online shopping sites, ride-sharing apps, and digital government tools to reach more people. This has increased digital insurance use by over 25% yearly, especially among millennials and Gen Z, and reached rural areas with 880 million+ mobile users. Challenges remain, like regulations, data privacy, and big insurers copying the tech. But partnerships between startups and traditional companies can keep growth going toward India's goal of "Insurance for All by 2047." This paper adds to research by showing how InsurTech shakes up business models, cuts costs, and includes more people. It offers advice for regulators and business owners. Future studies could track long-term effects on market reach.

Introduction

India's insurance market is still underdeveloped. Insurance makes up only about 4% of GDP, far below global averages. This leaves many people uninsured, especially with growing risks from cities expanding and health problems. InsurTech startups are changing this. They mix fintech speed with insurance needs to spark new ideas and reach more people. This paper studies their strategies through case studies, using recent market trends and rule changes up to 2025.



Literature Review

InsurTech is shaking up insurance worldwide with tech-driven models. These range from tough competition to shared software tools. In India, research points to key drivers like AI spotting fraud, IoT for pay-per-use policies, and mobile phones enabling cheap micro-insurance. Regulators created sandboxes testing grounds with a INR 25 lakh net worth rule and six-month trials that have launched over 100 startups. But there's a gap: few studies deeply analyze how these companies boost market reach under India's "Viksit Bharat" development goals.

Methodology

This study uses a qualitative case study method. It looks at three InsurTech companies: Acko (focused on motor and health insurance), Toffee (micro-insurance), and newer players using tools like Shift Technology. Data comes from IRDAI reports, company documents, and other analyses from 2020 to 2025. We used thematic analysis to spot patterns in innovation and how they grow their customer base.

Key Innovations in Indian InsurTech

InsurTech companies are improving every step of the insurance process:

- **AI and Analytics:** Instant policy approvals and custom premiums, cutting claims processing time by 50%.
- **Embedded Insurance:** Built into online shopping or ride-hailing apps, following IRDAI's March 2024 rules.
- **Blockchain and IoT:** Stops fraud and uses telematics for pricing based on real usage.

These changes create customer-friendly products, like quick gadget or travel micro-policies you can buy in minutes.

Strategy	Description	Examples	Impact
Digital Channels	App-based issuance, zero-paperwork claims	Acko's telematics motor policies	25% YoY digital growth
Partnerships	E-commerce, fintech tie-ups	Toffee with lifestyle platforms	Rural expansion via 880M internet users
Regulatory Leverage	Sandbox testing, BimaSugam portal	IRDAI composite licenses	Projected 3x market by 2032
Hyper-Personalization	Usage-based, millennial-focused	AI-driven health plans	Higher uptake among Gen Z



Strategies emphasize accessibility, countering agent dominance (90% distribution).

Case Studies

Acko General Insurance

Acko led the way with mobile-first motor insurance. It uses telematics to track driving data and set personal premiums—something old insurers rarely do. Instant claims and no agents helped reach more customers. By 2024, it raised USD 255 million in funding.

Toffee Insurance

Toffee offers micro-policies for gadgets and travel. Customers buy them via apps in minutes. It targets young city dwellers and grows fast through simple design and easy online reviews.

Broader Ecosystem

Startups team up with big insurers using APIs to work better together. This boosts efficiency, like in NTT Data's models.

Challenges and Opportunities

Challenges include fraud, cyber threats, and low insurance knowledge in rural areas. Plus, 45% of health costs are paid out-of-pocket. Opportunities are in health insurance with custom products and quick market launches. The market could hit USD 11.9 billion by 2033.

Conclusion

InsurTech startups are changing India's insurance world with cool tech like AI, apps, and data. This makes insurance quick, cheap, and easy for everyone. Looking at Acko and Toffee, the paper shows how apps, team-ups with big online shops, and new rules help them grow fast. They target young people and villages, with the market set to hit \$12 billion by 2033. Problems like scams and rules exist, but working with old insurers helps. Leaders should support this for insurance reaching all by 2047 and better money safety for Indians.

References

IMARC Group. (2023). *India Insurtech market size, share, growth & outlook 2033*. <https://www.imarcgroup.com/india-insurtech-market>

JETIR.(n.d.). *A study on growth trajectory of InsurTech in India* [PDF]. <https://www.jetir.org/papers/JETIRHB06008.pdf>



Billcut. (2025, November 6). *Insurtech startups to watch in India*.<https://www.billcut.com/blogs/insurtech-startups-india/billcut>

KUEY.(n.d.).*InsurTech and Indian insurance industry*.
<https://kuey.net/index.php/kuey/article/download/3665/2392/8437kuey>

McKinsey & Company. (2024, November 13). *Steering Indian insurance from growth to value in the upcoming techade*.<https://www.mckinsey.com/in/our-insights/steering-indian-insurance-from-growth-to-value-in-the-upcoming-techademckinsey>

PMC. (2024, December 2). *Business innovation*.
<https://pmc.ncbi.nlm.nih.gov/articles/PMC11835706/pmc.ncbi.nlm.nih>

Blume Ventures. (2024, June 25). *India InsurTechbluprint*. <https://blume.vc/reports/india-insurtech-bluprintblume>

JIER. (2025, May 12). *Indian Insurtech landscape: Opportunities, challenges*.
<https://jier.org/index.php/journal/article/view/2702jier>

BCG. (2025, June 22). *Pathways to inclusive insurance: A vision for 2047*.
<https://www.bcg.com/publications/2024/india-insurtech-landscape-and-trends-pathways-to-inclusive-insurance-a-vision-for-2047bcg>