United International Journal of Multidisciplinary Research
ISSN: 3048-6726 (UIJMR) Impact Factor: 6.934 (SJIF)
An International Peer-Reviewed and Refereed Multidisciplinary Journal
www.uijmr.in Vol-3, Special Issue-1 ,2026

STARTUP ECOSYSTEM IN INDIA: GROWTH AND CHALLENGES

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Abstract

A startup is generally defined as a newly established venture created to introduce innovative products or services, often under conditions of uncertainty and limited resources. In recent years, India has emerged as one of the world's fastest-growing major economies, creating a fertile environment for entrepreneurial activity. Rapid urbanization, digital transformation, policy reforms, and expanding internet penetration have collectively strengthened the foundation for new enterprises. At the same time, a growing population and a relatively constrained formal job market have encouraged many young professionals to transition from job seekers to job creators. India's startup ecosystem has evolved significantly over the past decade. Government initiatives such as Startup India, Digital India, and Make in India have provided policy support, tax benefits, and simplified compliance processes. Access to funding has also improved with the rise of angel investors, venture capital firms, incubators, and accelerators. Academic institutions and innovation hubs now play an important role in mentoring and nurturing early-stage ventures. Moreover, the widespread adoption of digital payments and e-commerce platforms has lowered entry barriers across sectors such as fintech, edtech, healthtech, and agritech. Despite this progress, startups continue to face several challenges. These include limited access to early-stage funding in smaller cities, regulatory complexities, intense competition, talent retention issues, and market volatility. Infrastructure gaps and bureaucratic delays may also hinder growth, particularly for manufacturing-based ventures.

Keywords: Startup, Ecosystem, challenges.

Introduction

The Indian economy has traditionally been agriculture-dominated. Of late the service sector has been gaining ground. In the industrial parlance, manufacturing has always played a second fiddle to agriculture even though the contribution in GDP of the country through manufacturing has been on the rise since our independence. Seeing the bludgeoning growth in population and due to the advent of information and communication technology interventions in business, the job market is shrinking. A need was therefore felt to encourage youth to set up their enterprises and become job givers in place of job seekers. Every year the Indian education system has been churning out graduates both technical and nontechnical but the industry is not keen on taking them into its fold due to various reasons. In such a scenario to encourage the youth to set up their ventures, the government of India came with the latest initiative of startup India in 2016. The results were encouraging with a whole lot of new unicorns coming into the mainstream: Ola, Flipkart etc. to new a prominent few. Even in times of the current pandemic of COVID19, we were witness to four new unicorns coming up.

Startup Ecosystem

Defined simply ecosystem is the environment in which a business entity is being set up. India has been ranked as the 3rd largest startup ecosystem in the World. The year-to-year growth rate has

been in the range of 12- 15%. There are approximately 55000 startups in India as per 2018 data. But not all startups are successful. The failure rate hovers around 15%. Most of the startups are happening in the technology sector. One more piece of heartwarming data is regarding the growth of women entrepreneurs which stood at 15% in 2019. The new startups have contributed to generating jobs for more than 40000 new jobs per year.

The startup ecosystem in India has many players which include the government both central and state, private players, technical business incubators, catalysts, accelerators and individuals. In such a complex scenario it is difficult to figure out a quick fix solution and also to pinpoint what plagues the system. The startup movement in India started way back in the 1980s when the government of India set up the Science and Technology Entrepreneurs Parks. There were six of these parks established with the tacit support of the Department of Science & Technology. All of these were linked to technical institutions of repute with a mandate to encourage the outgoing technical graduates to take up entrepreneurship as a career. The government supported the initiative by providing the basic machinery, infrastructure costs and hand holding the young graduates. This resulted in a good number of graduates coming forward and taking up entrepreneurship as a career even beyond the traditional family business. Fast forward to the year 2016 when the government of India came up with the Startup India initiative wherein it was suggested to open up the business incubators not only in the technology sector but also for other sectors viz. pharma, eductech, fintech etc. too. This gave an impetus to the startup movement with a number of incubators coming up under various government schemes. The schemes available were Department of Science & Technology recognized Technical business incubators, MSME TBI, NIDHI TBI, BIRAC TBI. All these incubators acted as nurseries to nurture the young graduates to develop as entrepreneurs. Most of these promoted the concept of FabLab wherein basic fabrication-related machinery was made available for product development. The necessary technology was taken from the technical institutes and the industries of the region.

The National Incubation and startup policy was formulated in 2019 and as mandated by the Ministry of education, all higher education institutions are supposed to implement it. The general guidelines were listed under this policy and a framework for promoting the culture of entrepreneurship was also given. The government on its part through the implementation agencies like AICTE started with a series of programs to train the faculty to handle the startups. Institutions were asked to specify the budget allocation for promoting the startups. The government also launched several schemes under which a new entrepreneur could get a substantial amount for starting his enterprise. Starting from the stage of ideation to the development of proof of concept and final launch in the market as a product, generous funding in form of grants is available from government agencies. In addition to this, the government extended a host of benefits in form of tax reliefs etc to new entrepreneurs. In case some ventures required more funding, several pitching contests were organized wherein the idea needed to be pitched to investors (angel or equity partners) to garner more funds for the venture. In fact, the Indian startups raised $63 billion in the last five and a half years since the start of startup India. Figure 1 shows the bar graph of the growth of startup funding and the number of startups funded. This has made setting up of startups a much easier task.

The Startup Support Ecosystem

Incubators and Accelerators

A strong network of incubators and accelerators forms the backbone of India's startup support ecosystem. These institutions provide early-stage ventures with structured mentoring, seed funding

access, shared workspaces, technical infrastructure, and business development guidance. Over the past decade, incubation centers have expanded beyond metropolitan cities into Tier-2 and Tier-3 regions, promoting inclusive entrepreneurial growth.

Government-backed initiatives such as the Atal Innovation Mission have facilitated the establishment of Atal Incubation Centers across the country. In addition, premier institutions like Indian Institute of Technology Delhi and Indian Institute of Management Ahmedabad host incubation cells that nurture student-led and external startups. Private accelerators and corporate-sponsored programs further enhance this ecosystem by organizing demo days, investor connects, and global exposure opportunities. These structured programs significantly improve startup survival rates by bridging knowledge and resource gaps during the critical early stages.

Academic and Research Institutions

Academic and research institutions play a crucial role in fostering innovation-driven entrepreneurship. Leading institutes such as the Indian Institutes of Technology and the Indian Institutes of Management have embedded entrepreneurship into their curricula through specialized courses, innovation labs, and startup competitions.

Universities increasingly encourage research commercialization by facilitating patent filings, technology transfer offices, and industry collaboration programs. Faculty members often mentor startups, while alumni networks provide funding and strategic support. State universities and private institutions are also establishing entrepreneurship development cells (EDCs) to nurture grassroots innovation. This academic-industry linkage ensures that innovative ideas emerging from laboratories are translated into viable market solutions, thereby strengthening the innovation pipeline.

Corporate Partnerships and Open Innovation Networks

Corporate engagement has become an integral part of India's startup ecosystem. Large organizations collaborate with startups through open innovation challenges, accelerator programs, strategic investments, and mergers and acquisitions. Such partnerships allow startups to leverage established distribution networks, brand credibility, and operational expertise.

Corporate venture capital (CVC) arms invest in emerging technologies aligned with long-term strategic goals, while startups gain access to pilot projects and enterprise clients. Open innovation platforms encourage co-creation of solutions in areas such as fintech, renewable energy, supply chain management, and artificial intelligence. These collaborations create a mutually beneficial ecosystem where startups scale faster and corporates remain competitive through continuous innovation.

Drivers of Growth in the Indian Startup Ecosystem

Demographic and Economic Advantages

India's demographic structure remains one of its strongest competitive advantages in 2026. With a median age of around 28–29 years, India is among the youngest major economies in the world. This youthful population provides both a vast talent pool and a rapidly expanding consumer base. A large proportion of the population falls within the working-age group, creating a dynamic workforce that is increasingly inclined toward entrepreneurship rather than traditional employment.

The rise of aspirational middle-class households has further strengthened domestic demand for innovative products and services. Increased disposable income, urbanization, and lifestyle changes have accelerated consumption across sectors such as e-commerce, fintech, healthtech, and edtech. Moreover,

internet penetration has grown significantly, including in rural areas, enabling startups to access previously untapped markets. Affordable data plans and smartphone usage have transformed India into one of the largest digital consumer markets globally. This widespread digital adoption has not only altered purchasing behavior but also encouraged digital-first business models that scale rapidly across geographies.

Economic reforms and sustained GDP growth have further enhanced investor confidence. India's position as one of the fastest-growing large economies has attracted global attention, making it a preferred destination for technology-driven ventures and cross-border investments.

Government Initiatives and Policy Support

Government intervention has played a catalytic role in strengthening India's startup ecosystem. The launch of Startup India marked a turning point by recognizing startups as a formal category and offering tax exemptions, self-certification compliance, and faster patent processing. Complementary initiatives such as Digital India and Make in India have improved digital access and manufacturing competitiveness.

The Atal Innovation Mission has further strengthened innovation by establishing incubation centers, tinkering labs in schools, and funding support for startups. Regulatory reforms aimed at improving the Ease of Doing Business ranking have simplified company registration procedures and reduced bureaucratic delays.

In addition, government-backed funds such as the Fund of Funds for Startups (FFS) have enhanced capital availability by channeling investment into venture funds. State governments have also introduced localized startup policies, offering incentives such as subsidized office spaces, grants, and mentorship support. Collectively, these measures have reduced entry barriers and encouraged innovation-driven entrepreneurship.

Capital Availability and Financial Ecosystem

Access to capital is central to startup sustainability and scale. Over the past decade, India has witnessed robust growth in venture capital (VC) and private equity (PE) investments. Both domestic and international investors have demonstrated strong interest in high-growth sectors such as fintech, SaaS, deep tech, and electric mobility.

The funding landscape now includes angel investors, seed funds, venture debt providers, corporate venture arms, and family offices. Early-stage financing has become more structured, with organized angel networks and crowdfunding platforms supporting idea-stage ventures. Meanwhile, later-stage startups benefit from growth equity and pre-IPO funding rounds.

Incubators and accelerators — often associated with premier academic institutions and corporate houses — provide not only capital but also strategic mentorship, networking opportunities, and market access. Although funding cycles may fluctuate due to global economic conditions, India's long-term investment outlook remains positive due to its strong market fundamentals and innovation capacity.

Digital Infrastructure and Innovation Platforms

India's digital public infrastructure has become a global benchmark for enabling entrepreneurship. The integration of Aadhaar, Unified Payments Interface, and the JAM (Jan Dhan–Aadhaar–Mobile) trinity has created a seamless digital ecosystem for identity verification, financial transactions, and service delivery.

The widespread adoption of UPI has revolutionized digital payments, enabling startups to integrate real-time, low-cost financial transactions into their platforms. Aadhaar-based e-KYC

processes have reduced onboarding time for customers, supporting fintech, healthtech, and e-commerce startups.

Furthermore, affordable smartphones, cloud computing services, artificial intelligence tools, and data analytics platforms have lowered entry barriers for technology-based ventures. Startups can now scale operations nationally with minimal infrastructure investment. The availability of open APIs and digital public goods has democratized innovation, enabling even small startups to compete effectively in the market.

Together, demographic strength, policy backing, financial depth, and digital infrastructure form the cornerstone of India's thriving startup ecosystem.

Challenges Faced by Indian Startups

A survey of Indian executives conducted by the IBM Institute for Business Value and Oxford Economics revealed that despite India's flourishing entrepreneurial culture, over 90% of startups do not survive beyond their first five years of operation. The Startups in India encounter a number of challenges, including a shortage of experienced staff, bureaucratic roadblocks, and fierce rivalry from established companies. Due to unclear regulations, poor infrastructure, and problems scaling up operations, startups confront substantial difficulties Despite these barriers, India's startup ecosystem is still growing, and various government efforts are designed to promote and assist entrepreneurship in the country.

Lack of funding: Indian startups usually struggle to secure investment due to a lack of access to funds. It's common for startup ecosystems to experience waves of shutdowns after periods of intense funding activity. Venture capital firms typically target established startups, making it challenging for early-stage companies to get the financing support. Connected H, a full stack B2B health tech startup founded in 2018 by Shubham Gupta, Rahul Kumar and Suresh Singh shut down in July, 2023 due to lack of financing stating that it would return the remaining amount to the investors.

Knowledge and skill gaps: lack of knowledge can lead to unavoidable mistakes that could affect the cost of businesses, so requirement of proper skill & knowledge while commencing a startup business is a pre-requisite condition.

Regulatory environment: Startups often face regulatory complexities and bureaucratic red tape in India. Complying with various legal & regulatory requirements, obtaining licenses, dealing with taxation and navigating the complex business environment can be time-consuming and costly.

Challenges

The major challenge as of now is to have an equitable growth of startups in all parts of the country. For this, the government machinery has geared up and all state governments have a startup-related program for their people. The second major challenge is the disparity in the dissemination of information. Most of the time the targeted population is unaware of the government schemes and lands up with no resource or support from the government. A recent example of the funding not finding the right kind of people was the startup contest organized by the Ministry of youth affairs wherein the youth were not aware that such an opportunity existed. The youth from smaller towns and cities are also trying to move to bigger cities for want of facilities. The government should take up proper dissemination of all its policies to all concerned. Business incubators should be opened up in the remotest corners to garner ideas and help the youth to build up their enterprise.

Conclusion

Indian Startups are now spread across the length and breadth of the country. It is pertinent that the Startup ecosystem is well integrated to connect startups to fund houses and various stakeholders. Startups in India face a variety of obstacles, including regulatory obstacles, inadequate infrastructure,

and a lack of market knowledge. Successful businesses have shown that proactive measures can overcome these challenges, such as performing in-depth research, building strong relationships with stakeholders, utilising technology, and asking for mentorship and advice from seasoned business owners. Due to a growing market and a thriving ecosystem, Indian startups have the opportunity to be highly successful and to aid in the country's economic growth. However, to thrive in this ecosystem, Startups need to focus on key areas such as market research, building a strong team, fostering innovation, leveraging technology, forming strategic partnerships, and adopting a customer centric approach. It is also crucial to stay updated on government support and initiatives that can provide valuable resources and funding. The startup ecosystem in India is very vibrant. Only a small push to make it more inclusive would go a long way in promoting youth to take up entrepreneurship as a career. Entrepreneurship awareness and development camps should be organized in addition to ideation workshops and boot camps to find out the new ideas and take them to the level of an enterprise. Sector-specific, local problem-targeted solutions should be encouraged to have uniform growth. The startup scene in India as of now is very bright.

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