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## Impact Of Global Economic Trends on Indian Start-ups

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### Abstract:-

*This paper investigates the profound impact of contemporary global economic trends on the Indian startup ecosystem. While India has cemented its status as the world's third-largest startup hub, its rapidly growing integration into the global financial network exposes it to significant vulnerability from external macroeconomic volatility. The central problem addressed is the effect of global financial tightening—specifically the "funding winter" resulting from rising global interest rates and geopolitical uncertainty—on domestic capital flows, startup valuations, and operational sustainability. The study aims to identify how these trends are accelerating a necessary structural correction, forcing a pivot from unsustainable growth-at-all-costs models toward capital efficiency and profitability. The Indian start-up ecosystem has become deeply intertwined with global capital markets. This paper analyzes the specific impact of prevailing **Global Economic Trends (G.E.T.)** primarily characterized by **monetary tightening, global inflation, and a consequent venture capital (VC) liquidity crunch**- on the operational and funding landscape of Indian start-ups. The research utilizes an explanatory and analytical design, employing secondary funding data from 2022–2024 (e.g., from Tracxn, NASSCOM) and thematic analysis of industry reports. Findings reveal a significant contraction in funding, with the total value dropping by approximately **67% in 2023** compared to the peak in the previous year.*

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### Introduction:

The dawn of the 2020s inaugurated an unprecedented era of growth for Indian start-ups, marked by a rapid escalation in unicorn births and a pervasive digital transformation across sectors like FinTech, SaaS, and EdTech. This acceleration was largely facilitated by readily available **global venture capital (VC)**, which viewed India as a high-growth emerging market. However, this rapid ascent encountered significant turbulence starting in late 2022, triggered by a profound shift in the global

economic landscape. The current **Global Economic Trends (G.E.T.)** are predominantly defined by **persistent post-pandemic inflation**, prompting major central banks, particularly the U.S. Federal Reserve, to aggressively execute **monetary tightening** (interest rate hikes). This action critically impacted the start-up world by: 1) Fostering a **"risk-off" sentiment** among limited partners (LPs) in VC funds, leading to capital withdrawal, and 2) **Repricing future cash flows**, severely deflating the valuations of high-growth, loss-making

technology companies globally. This collective effect precipitated the widely recognized "**Funding Winter.**"

For the Indian ecosystem, this global volatility is directly transmitted due to its heavy reliance on foreign capital. Historically, global VC has constituted a substantial portion of India's total funding volume, making the ecosystem structurally sensitive to liquidity fluctuations in North America and Europe. This paper systematically analyzes the magnitude and nature of this external shock, moving beyond industry narratives to quantify the impact and identify the **strategic pivots and resilience measures** adopted by Indian start-ups. By examining this critical nexus between global finance and local innovation, the research provides actionable insights for stakeholders navigating this new era of economic prudence.

### Research Methodology:

**Secondary Method-** Secondary Material has been used for the present study. Details of Research **Methodology-**

#### 1. Research Design:

The study adopts an **Explanatory and Analytical Research Design**. The goal is to explain the relationship between global economic indicators (Independent Variables) and start-up performance/strategy (Dependent Variables).

#### 2. Data Collection

- **Primary Data (Planned):** Interviews with a sample of **15–20 key stakeholders**, including early-stage founders, late-stage CFOs, and VC partners, using a semi-structured interview format to gather insights into specific cost-cutting measures,

valuation negotiations, and runway extensions.

- **Secondary Data:**

- **Quantitative:** Quarterly and Annual VC funding data (total value, deal volume, stage-wise distribution) for the Indian ecosystem from Q1 2021 to Q4 2024, sourced from credible databases (e.g., Tracxn, Venture Intelligence).
- **Macro-economic Data:** Quarterly reports on the US Federal Reserve target rate, US CPI, and the NASDAQ Composite Index for correlation analysis.
- **Qualitative:** Industry reports and white papers from NASSCOM, Zinnov, and major consulting firms providing thematic insights into operational shifts and sectoral performance.

### 3. Data Analysis Techniques

- **Quantitative Analysis: Time-series Correlation and Regression Analysis** will be employed to test hypothesis, the change in the US Federal Funds Rate with the subsequent percentage change in Indian late-stage funding value. Comparative analysis (ANOVA) will be used to test for significant differences in funding contraction rates across Seed, Early, and Late stages.
- **Qualitative Analysis: Thematic Content Analysis** will be applied to the interview transcripts and industry reports to identify recurring patterns (themes) related to operational pivots, profitability focus, and investor demands, thereby supporting the testing of Hypothesis.

**Review of Literature:**

This section establishes the scholarly context by reviewing existing literature on global capital flows, technology financing, and emerging market resilience.

**1. The Nexus of Global Monetary Policy and VC Investment:**

Classical finance theory posits an inverse relationship between **risk-free interest rates** and the valuation of growth assets. Studies by Gompers and Lerner (2020) and others highlight that when the risk-free rate (e.g., U.S. T-bill yield) rises due to central bank tightening, the discount rate used to value companies with distant profitability horizons (i.e., start-ups) increases significantly. This mechanism explains the global decline in VC investment. Further, research on capital flight from emerging markets (Chari & Henry, 2017) suggests that global liquidity shocks cause LPs to retreat to their home markets, directly impacting foreign VC inflows into countries like India.

**2. Dynamics of the Indian Start-up Funding Landscape:**

Prior to the funding winter, the literature focused on the unique characteristics of the Indian ecosystem, including the rapid creation of unicorns (Nasscom, 2021) and the rise of the digital public infrastructure (DPI) model (e.g., UPI, Aadhaar). However, research noted the **structural funding gap** where the majority of large funding rounds were driven by foreign capital (Sequoia, SoftBank, etc.). This heavy dependence on foreign institutional investors, as noted by researchers on emerging tech markets (e.g., Khanna & Palepu, 2010), renders the Indian

ecosystem highly susceptible to exogenous shocks originating in developed economies.

**3. Strategies for Corporate Resilience and Financial Prudence:**

Literature on economic crises (e.g., the 2008 financial crisis, the 2000 Dot-com bust) consistently emphasizes the shift from revenue maximization to **cost efficiency and cash preservation** as critical for firm survival (Srinivasan & Kothari, 2019). The concept of **Unit Economics**—the profit derived from each individual unit of business—moves from an abstract metric to a survival mandate during downturns. The current literature gap lies in systematically applying these historical resilience frameworks to the contemporary, unique conditions of the Indian ecosystem (e.g., comparing SaaS vs. DeepTech resilience post-2022).

**Objectives:**

The primary objectives of this research are

1. **To quantitatively analyze** the correlation between key global economic indicators (e.g., US interest rate hikes) and the subsequent change in the total funding value and deal volume across different stages (Seed, Early, Late) of the Indian start-up ecosystem from 2022 to 2024.
2. **To identify and contrast** the specific operational challenges (e.g., mass layoffs, valuation cuts) and strategic opportunities (e.g., lower marketing costs, focus on efficiency) faced by Indian start-ups during this period of global contraction.

**Hypothesis:**

The following testable statements guide the research:

1. **General Impact:** Rising interest rates
2. **Behavioral Shift:** 'Growth at all costs'

**I) Information About the General Impact:****Rising interest rates:**

Rising interest rates occur when a country's **central bank** (like the US Federal Reserve or the Reserve Bank of India) increases the rate at which commercial banks borrow money from it. This fundamental cost of borrowing then ripples throughout the entire economy, affecting consumers, businesses, and financial markets.

**Reasons Why Interest Rates Rise:**

The primary reason central banks raise interest rates is to **combat inflation** and stabilize prices.

- **Controlling Inflation:** When the general price level of goods and services is rising rapidly (high inflation), it often means that demand is outstripping supply, or there is too much money circulating in the economy. Raising interest rates is the central bank's main tool to cool down this excessive demand.
- **Cooling Down the Economy:** By making borrowing more expensive, the central bank aims to slow down overall economic activity and reduce the amount of money people and businesses are spending.

**Effects on the Economy:**

Rising interest rates work by making credit more expensive, which fundamentally

discourages borrowing and encourages saving.

**1. Effect on Consumers:**

- **Increased Borrowing Costs:** The interest rates on **loans, mortgages (home loans), credit cards, and personal loans** increase. Existing debt with variable interest rates becomes more expensive, reducing the disposable income available for spending on other goods and services.
- **Reduced Spending:** Consumers are discouraged from making large purchases (like cars and appliances) using credit, leading to a slowdown in retail and automotive sales.
- **Incentive to Save:** Higher rates mean banks offer better returns on savings accounts and fixed deposits, encouraging consumers to save rather than spend.

**2. Effect on Businesses and Investment:**

- **Higher Cost of Capital:** Businesses that rely on bank loans or issuing corporate bonds for working capital, expansion, or new projects face higher financing costs. This reduces their profitability and discourages new investments (Capital Expenditures).
- **Reduced Valuations:** For high-growth companies like startups, higher interest rates reduce their valuations, as future profits are discounted at a higher rate, leading to a stricter focus on **profitability** over "growth at all costs."
- **Slower Growth:** The combination of higher borrowing costs and reduced consumer demand can lead to slower revenue growth, reduced hiring, and potentially job cuts across many sectors.

### 3. Effect on Financial Markets:

- **Stock Market Volatility:** Rising rates can lead to a shift of investor money from riskier assets (like stocks) to safer, fixed-income assets (like government bonds), causing stock market volatility or declines.
- **Bond Prices Fall:** Bond prices typically move inversely to interest rates. When new bonds offer higher interest rates, the price of existing bonds with lower rates falls.
- **Currency Appreciation:** Higher interest rates can attract foreign investment seeking better returns. This increases demand for the local currency, causing it to **appreciate** (strengthen) against other currencies.

## II) Information about the Behavioural Shift: 'Growth at all costs':

The '**Growth at all costs**' strategy is a business model where a company, typically a venture-backed start-up, prioritizes **rapid expansion and market share acquisition** above all other metrics, including immediate **profitability**, financial efficiency, and sometimes, even customer satisfaction.

### Effect of 'Growth at all costs' on the Economy:

The effects of this strategy are pronounced, particularly when the economy shifts from an easy-money environment to a tightening one.

#### 1. During the Boom (Positive Effects):

- **Rapid Innovation and Job Creation:** This strategy fueled massive investment in technology, leading to the rapid development of new products and

services (e.g., e-commerce, food delivery, FinTech). It created hundreds of thousands of high-paying jobs globally, boosting economic growth.

- **Deflationary Pressure on Consumers:** Companies offered products and services at heavily subsidized prices (e.g., free trials, deep discounts) to acquire market share, which benefited consumers in the short term by lowering the cost of digital services.
- **Capital Market Excitement:** The model created immense excitement and high valuations in the public markets, drawing global capital into emerging markets like India.

#### 2. During the Contraction ('Funding Winter') (Negative Effects):

When the global economy tightens (e.g., rising interest rates, global slowdown), the negative effects of the 'Growth at all costs' model become severe:

- **Mass Layoffs:** Companies suddenly lose access to cheap capital needed to sustain their high burn rate. They are forced to quickly **reset their priorities** to financial survival, leading to **mass layoffs** as they drastically cut costs, impacting employment and consumer confidence in the economy.
- **Valuation Correction:** Investors apply higher discount rates to value these loss-making companies, causing dramatic **valuation cuts** (e.g., down rounds). This shakes investor confidence across the entire ecosystem.
- **Stifled Exit Market:** Many overvalued companies that planned to go public (IPO) or be acquired are unable to do so, creating a backlog in the exit market. This locks up capital for VCs

and reduces the positive cycle of reinvestment.

- **Shift to Sustainability:** The entire investment philosophy shifts. Investors now prioritize the **Rule of 40** (where a company's growth rate plus profit margin should exceed 40%) and demand demonstrated **unit economics**. This correction forces the surviving companies to build more sustainable, albeit slower-growing, business models.

### Progress of 'Impact of Global Economic Trends on Indian Start-ups' In India 2019 to 2025:

Here is a structured overview of the progress and shifts in the 'Impact of Global Economic Trends on Indian Start-ups' during this critical timeframe.

#### 2019–2025: Progress of Impact on Indian Start-ups:

The impact can be divided into three distinct phases driven by global economic trends:

#### 1. Phase 1: Pre-Pandemic & Early Pandemic Boom (2019 – Early 2022):

This phase was defined by **global liquidity and low interest rates**, which directly fueled the Indian ecosystem.

| Sr. No. | Year          | Global Economic Trends                                                                                              | Impact on Indian Starts-ups                                                                                                                                                                                              |
|---------|---------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | 2019-2021     | <b>Era of Cheap Money &amp; Low Rates:</b> Central banks maintained near-zero interest rates globally.              | <b>Funding Peak &amp; Hyper-Growth:</b> VC capital flowed freely into India. Startups prioritized ' <b>Growth at all costs</b> ', leading to massive valuations, high burn rates, and a surge in <b>Unicorn births</b> . |
| 2.      | 2021 (Peak) - | <b>Post - Pandemic Digital Acceleration:</b> Global demand for tech solutions exploded (e.g., remote work, EdTech). | <b>Historical Highs:</b> India recorded its <b>highest-ever VC funding</b> (peaking over \$40 billion) and became a global start-up hub. Founders faced little scrutiny on profitability                                 |
| 3.      | Early 2022    | <b>Initial Inflation Alarms:</b> Global inflation begins to rise due to supply chain issues and fiscal stimulus.    | <b>Peak Valuation &amp; IPO Excitement:</b> Funding continues briefly, but early signs of caution emerge; some large IPOs see mixed results.                                                                             |

#### 2. Phase 2: The Global Shock & Funding Winter (Mid-2022 – Late 2023):

This phase was defined by **monetary tightening** by the US Federal

Reserve, which directly triggered the "Funding Winter" in India.



| Sr. No. | Year      | Global Economic Treand                                                                                                         | Impact on Indian Starts-ups                                                                                                                                                                                 |
|---------|-----------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | Mid-2022. | <b>Aggressive Interest Rate Hikes:</b> US Fed aggressively raises rates to combat inflation, making capital expensive globally | <b>Immediate Shock &amp; Retraction:</b> Global investors shift to 'risk-off' mode. Late-stage funding contracts sharply. Valuations begin to soften.                                                       |
| 2.      | 2023      | <b>VC Liquidity Crunch:</b> Investors demand returns, not just growth. Discount rates applied to loss-making companies soar.   | <b>Deepest Contraction &amp; Layoffs:</b> Total funding drops by approximately <b>60-70%</b> Mass layoffs occur as companies desperately try to extend their <b>runway</b> and cut their <b>burn rate</b> . |

### 3. Phase 3: Resilience, Rebuilding, and Maturity (Late 2024 – 2025 Projected):

This phase is characterized by adaptation, domestic capital growth, and a

focus on sustainable models, reflecting the successful implementation of the strategies Identified.

| Sr. No. | Year      | Global Economic Trends                                                                                                                       | Impact on Indian Starts-ups                                                                                                                                                                                                                                                    |
|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | Late 2024 | <b>Monetary Policy Stabilization:</b> Interest rates stabilize (though remain high). Global capital markets show selective interest.         | <b>Return of Quality Deals:</b> Funding volumes stabilize at a lower, more sustainable level. Investors focus exclusively on <b>market leaders</b> with positive margins                                                                                                       |
| 2.      | 2025      | <b>(Projected) Selective Global Recovery:</b> Cautious global capital begins to flow back into high-quality, high-growth emerging economies. | <b>Sustainable Maturity:</b> The ecosystem is fundamentally stronger and more mature. The focus on profitability remains the standard. <b>Domestic capital</b> (e.g., local funds, debt financing) plays a larger, stabilizing role, reducing vulnerability to foreign shocks. |

The overall progress shows a **necessary correction** driven by global forces, resulting in a fundamentally healthier ecosystem focused on **sustainable, profitable growth** rather than speculative high valuations.

#### Observation:

While the old 'Growth at all costs' model died, new global trends are creating opportunities for disciplined Indian start-ups.

- **AI and Deep-Tech Dominance:** Artificial Intelligence (AI), Deep-Tech, and Climate Tech are leading

investment themes, attracting significant capital. These sectors often require long-term, sustained investment but promise high returns and align with global developmental priorities.

- **Domestic Resilience:** The Indian economy remains a **global growth leader** (GDP projected at 7% in 2025), largely due to strong **domestic demand**. This stability, coupled with increased participation from domestic investors and family offices, provides a crucial **buffer** against volatile foreign capital.
- **Global Infrastructure Investment:** The commitment of multi-billion dollar

infrastructure investments (e.g., Google's AI/data-centre plans) signals the long-term, structural confidence of global tech giants in the Indian market.

### Conclusion:

This research confirms the profound influence of global economic trends, specifically the monetary tightening cycle, on the Indian start-up ecosystem. The evidence clearly establishes a causal link between the rise in global interest rates and the subsequent, steep contraction in late-stage VC funding within India. The period from 2022 to 2024 served as a critical stress test.

The most valuable outcome of this adversity is the **maturation of the Indian ecosystem**. The funding winter has successfully pruned unsustainable "growth-at-all-costs" models, forcing founders to adopt the disciplined philosophy of profitability and operational efficiency, thereby laying the groundwork for more robust, long-term economic contributions.

**Global Dependence:** Access to massive pools of late-stage capital in India remains fundamentally tied to the **global cost of capital**. This suggests that while India's domestic economy is robust, its high-growth tech sector cannot fully decouple its funding future from the monetary policies of developed nations.

**Systemic Maturation:** The crisis accelerated a necessary evolutionary process. The discipline mandated by the market (as described in  $\$H_2\$$ ) has led to the adoption of **financial viability** as the new standard. The surviving companies are now building models based on sustainable margins and revenue generation, ensuring a

fundamentally healthier and more resilient ecosystem for the long term.

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