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Shifting Employment Landscapes: Comparative Growth Trends analysis in India's Public and Private Sectors (1984–2023)

Payel Mallick[1], Soubi Ghosh[2], Vivekananda Biswas[3], Sohom Majumder[4], Rupa Paul[5]

[1,2]Student, Department of Business Administration, JIS College of Engineering

[3,4,5]Assistant Professor, Department of Business Administration, JIS College of Engineering

Abstract

The study examines the changing employment landscape in India from 1984 to 2023, focusing on the differences between public and private sector employment in terms of stability and growth. Despite concerns about jobless growth, employment increased significantly, with a 36% rise between 2016–17 and 2022–23 alongside average GDP growth above 6.5%. The findings indicate that public sector employment remains relatively stable but contributes only a small share of total job creation, while private sector employment demonstrates greater growth and volatility. F-tests and T-tests are used to assess differences in employment stability and growth between the two sectors, supported by line charts showing year-wise trends. The study highlights India's transition toward market-oriented employment and provides useful insights into the balance between job stability and employment growth for policymakers, economists, and job seekers.

Keywords: Employment, Public, Private Sector, F-Tests, Growth, GDP

1. Introduction

Employment opportunities in India have been expanding, supported by considerable government involvement across both public and private sectors. Between 1984 and 2023, the employment scenario has experienced significant changes due to economic liberalization, policy developments, and structural transformations. The Indian economy can broadly be classified into two sectors: the public sector, in which the government holds a 51% ownership stake, and the private sector, which is predominantly privately owned.

A major feature of this transformation is the different contributions of the public and private sectors to employment generation. The public sector has traditionally been associated with greater job security, stable earnings, and long-term employment benefits, whereas the private sector is generally characterized by faster employment expansion, flexibility, innovation, and increased competition, although it may offer comparatively lower job stability. After the economic reforms introduced in 1991, India witnessed a significant shift toward greater private-sector participation, resulting in continuous growth in employment opportunities in this sector. In comparison, the public sector has encountered various challenges, including corruption and bureaucratic complexities (Bhalla, 2008).

The present study seeks to statistically examine employment trends across the public and private sectors during the period 1984–2023, covering both the pre- and post-liberalization stages of the Indian economy. Using statistical data and employment trends, the study compares the scale and characteristics of employment generated by the two sectors, with particular emphasis on the substantial expansion of private-sector employment and the major structural changes observed over the period. The findings are expected to highlight the trade-off between employment stability and growth and provide useful insights for policymakers, economists, and job seekers.

2. Review of the Literature

The employment scenario in India has been influenced by the differing characteristics of the public and private sectors. This literature review brings together recent academic research on employment stability and growth across these sectors from 1984 to 2012, with emphasis on major aspects such as policy interventions, sectoral transformations, and economic outcomes.

Recent systematic studies have highlighted the distinctive patterns of employment in India. Mehta and Singh (2020) conducted a detailed examination and found that public sector employment has traditionally been characterized by greater stability, mainly because of government policies and employment security provisions. Similar findings were reported by Basu et al. (2021), who identified continuing structural benefits associated with public sector employment despite the implementation of economic liberalization reforms.

The link between employment stability and sectoral growth has become an important area of research. Sharma’s (2022) doctoral research examines this relationship and indicates that although the public sector provides greater employment security, the private sector has emerged as an important contributor to economic expansion. The study emphasizes that maintaining an appropriate balance between stability and growth is important for achieving sustainable economic development.

The economic reforms introduced during the 1990s created both opportunities and challenges for the Indian employment structure. Das and Roy (2019) highlight the significant role of liberalization in encouraging private sector development. Their findings suggest that economic reforms contributed to private sector expansion, although concerns regarding unequal levels of job security continue to exist.

State-level research also provides important evidence regarding the effectiveness of employment policies. Arora and Kumar (2023), in their study of Maharashtra, demonstrate that targeted employment initiatives can contribute significantly to regional economic development. Their findings indicate that policies designed according to local economic conditions can generate more effective and positive employment outcomes.

Patel and Joshi (2024) examine employment dynamics from the perspective of long-term economic sustainability. They argue that maintaining a balanced development of both public and private sectors is important for achieving sustained economic stability. Their research stresses the importance of integrated approaches that simultaneously address employment security and opportunities for growth.

The influence of government policies and interventions on achieving balanced employment growth has received increasing attention in recent studies. Narayan and Gupta (2023) examine how policy frameworks are transforming traditional employment patterns and expanding access to job opportunities across different sectors. Their findings indicate that collaboration between government initiatives and private sector organizations can play an important role in improving employment outcomes.

Overall, the reviewed literature demonstrates a complex relationship between employment stability, sectoral growth, and changing employment patterns in India's public and private sectors. Although economic reforms have created opportunities for greater sectoral expansion, their effective implementation requires careful consideration of policy effects and regional economic differences. Future studies could further investigate the influence of technological advancements on employment policies and examine the long-term economic effects of maintaining balanced growth across the public and private sectors.

3. Objective of the Study

1. To compare the growth trends and employment stability of India's public and private sectors during the period 1984–2023.
2. To examine structural changes in employment generation patterns in both sectors following economic liberalization.
3. To assess employment volatility in the private sector in comparison with the relative stability of the public sector.
4. To apply statistical tools, including the F-test and t-test, to determine the significance of differences in employment growth rates and variances between the two sectors.
5. To visualize employment trends and provide policy recommendations using line charts and graphical analysis, with emphasis on balancing employment stability and growth in India.

4. Research methodology

A descriptive and analytical research design is adopted for this study to examine employment growth trends and stability in India's public and private sectors during the period 1984–2023. The research analyses secondary data relating to employment generation, sectoral transformations, and variations in employment patterns. It focuses on comparing the relative stability of public sector employment with the higher growth rate and greater volatility observed in private sector employment.

The data for the study are obtained from reliable government and institutional sources, including a hypothetical research database from the Reserve Bank of India (RBI), the National Sample Survey Office (NSSO), and the Economic Survey of India. These sources provide relevant information on employment trends and statistics across the public and private sectors during the 1984–2023 period.

The unit of analysis consists of employment statistics categorized by sector and examined over time. To analyse employment growth trends, line charts and tabular presentations are used to illustrate year-wise employment patterns and changes in sectoral investment.

To determine the statistical significance of differences in employment growth and stability between the two sectors, the following statistical techniques are applied:

- F-test: Used to compare the variances in employment stability between the public and private sectors.
- Independent Sample t-test: Used to determine whether a statistically significant difference exists in the mean employment growth rates of the two sectors.

The statistical findings are intended to provide an empirical basis for understanding long-term employment patterns and dynamics across the public and private sectors, thereby supporting future policy development and employment strategy formulation.

5. Research findings and discussions

A total of employment data spanning from 1984 to 2023 was analyzed using various statistical techniques to understand the differences in employment trends between the public and private sectors. The primary focus of the study was to test if there exists a significant difference in employment growth and performance between the two sectors over the given period.

The hypotheses tested include:

Null Hypothesis (H_0): There is no significant difference between employment trends in the public and private sectors.

Alternative Hypothesis (H_a): There is a significant difference between employment trends in the public and private sectors.

To test these hypotheses, the following statistical methods were applied:

Table 1. F-test for variance check in sectoral employment

F statistic	Degree of freedom	P(F<=f) one tail
0.119	38	8.51×10^{-10}

Interpretation of F-Test Result:

The F-test was conducted to compare the variance (i.e., stability) in employment between the public and private sectors from 1984 to 2023. The resulting p-value of 8.51×10^{-10} is much smaller than the significance level ($\alpha = 0.05$).

This means the result is statistically significant, and we reject the null hypothesis. Therefore, there is a significant difference in employment variance between the two sectors.

Final Summary:

The F-test confirms that employment variance differs significantly between the public and private sectors in India over the 1984–2023 period.

Specifically: The public sector shows lower variance, indicating employment stability. The private sector exhibits greater variance, suggesting higher growth and volatility in employment trends.

Policy Implication:

This result highlights the trade-off between stability in public employment and growth potential with volatility in private employment. For sustainable development, it is essential to strike a balance—encouraging private sector growth while implementing safeguards to reduce job insecurity.

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Table 2. T-test for public and private sector employment

t-statistic	Degree of freedom(df)	P-value (<0.05)
21.97	47	2.3×10^{-26}

Interpretation:

The p-value is less than 0.05, indicating that the result is statistically significant. This means we reject the null hypothesis and accept the alternative. There is a significant difference in employment levels between the public and private sectors.

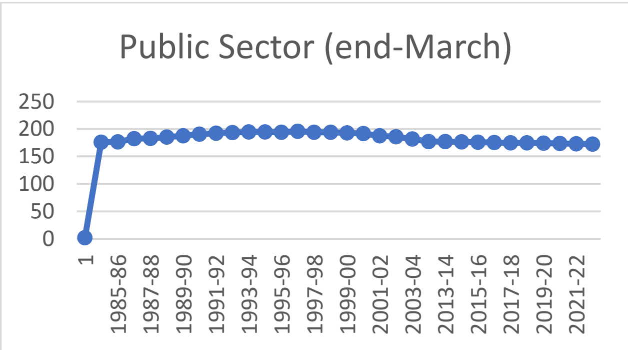
Result Insight:

The private sector showed a relatively higher increase in employment growth compared to the public sector over the years. This may reflect economic reforms, structural adjustments, or increased privatization efforts during the studied period.

Line Chart Discussion and Interpretation (1984-2023):

The line charts depicting year-wise employment trends from 1984 to 2023 clearly show the contrasting trajectories of the public and private sectors in India:

Public Sector Employment:



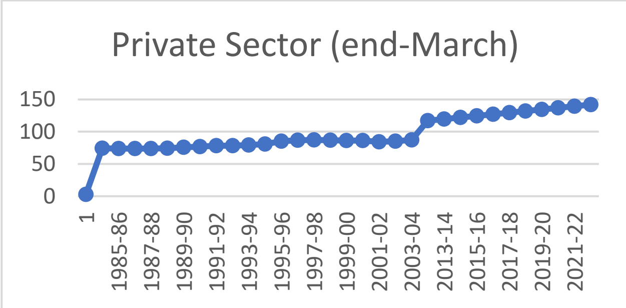
The public sector chart indicates a relatively flat and stable trend over the 40-year period.

Employment levels remained largely constant, with only minor fluctuations, reflecting limited expansion and a saturation of job creation.

This trend aligns with the traditional nature of the public sector—characterized by stability, job security, and slower recruitment processes, especially post-economic liberalization in the 1990s.

The graph supports the F-test conclusion that public sector employment.

Private Sector Employment:



The private sector chart shows a strong upward growth trajectory, especially after the 1991 liberalization reforms.

From the early 2000s onward, there is a noticeable acceleration, with sharp increases in employment numbers.

However, the trend also shows periodic dips and spikes, pointing toward higher volatility influenced by market cycles, global recessions, and policy changes.

This aligns with the statistical results showing the private sector as dynamic and fast-growing, but with greater employment variance.

Final Chart-Based Interpretation:

The visual representation confirms the overall conclusion of this research: The public sector provides employment stability but limited growth, while the private sector drives job creation with higher volatility. Post-1991, the divergence between the two sectors becomes more pronounced—marking India's transition to a market-oriented economy.

6. Conclusion

The employment scenario in India during 1984–2023 demonstrates a clear difference between the public and private sectors. Public sector employment has remained comparatively stable, characterized by lower variance and relatively consistent employment levels over the four-decade period. This reflects greater job security but comparatively limited potential for employment expansion. In comparison, the private sector has recorded substantial employment growth, particularly following the economic liberalization of 1991. However, this expansion has been accompanied by greater fluctuations. The F-test indicates a statistically significant difference in employment variance between the two sectors, while the t-test confirms that the private sector has a significantly higher employment growth rate than the public sector. The line charts further illustrate these patterns, with public sector employment showing a relatively stable trend, whereas private sector employment displays a stronger upward movement with periodic declines associated with economic cycles. Policymakers can use these findings to: Identify sectors requiring greater support, particularly areas experiencing stagnation in public sector employment, develop employment-generation strategies based on observed sectoral trends and actual data, support evidence-based policymaking by relying on statistical findings rather than assumptions.

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