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Evaluating the Impact of Trend Analysis on Profitability Assessment in Manufacturing Firms

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ABSTRACT: This study evaluates the impact of trend analysis on profitability assessment in manufacturing firms. Trend analysis, a vital financial tool, helps organizations monitor performance over time, identify cost patterns, and predict future outcomes. The primary objective of this research is to determine how trend analysis contributes to effective decision-making and improved profitability. The study employs a descriptive research design, using both primary and secondary data from selected manufacturing firms in the Peenya Industrial Area, Bengaluru. Financial statements from 2020 to 2024 were analysed using ratio analysis and trend percentage methods, while managers and accountants provided insights through structured questionnaires. Data were interpreted using Excel-based statistical tools. The findings reveal that consistent application of trend analysis enhances managerial forecasting accuracy, reduces financial risk, and supports strategic planning for cost control and revenue growth. The study concludes that trend analysis is not merely a retrospective tool but a strategic instrument for long-term profitability enhancement. It recommends regular implementation of trend analysis techniques in financial planning to improve operational efficiency and sustainability in manufacturing firms.

KEYWORDS: Trend Analysis, Profitability Assessment, Financial Performance, Manufacturing Firms, Forecasting, Strategic Decision-Making

I. INTRODUCTION

In the modern competitive business environment, profitability assessment has become a crucial determinant of an organization's financial health and sustainability. Manufacturing firms, in particular, operate within a dynamic market characterized by fluctuating raw material prices, changing consumer demand, and increasing production costs. To maintain financial stability and long-term growth, firms must continuously monitor and evaluate their financial performance. Among the various financial analysis techniques available, trend analysis has emerged as one of the most effective tools for understanding performance over time and forecasting future outcomes.

Trend analysis involves studying financial data over several accounting periods to identify consistent patterns or movements in key financial indicators such as sales, costs, and profitability ratios. By comparing the performance of a firm over multiple years, managers can determine whether the company's financial position is improving, deteriorating, or remaining stable. It provides valuable insights into operational efficiency, cost management, and revenue generation—all of which directly affect profitability. In manufacturing firms, where capital investment and operational costs are substantial, trend analysis serves as an early warning system to detect inefficiencies and guide corrective actions. In the context of today's industrial economy, manufacturing firms in India play a significant role in driving growth and employment. However, many small and medium-scale enterprises often rely on traditional accounting methods without leveraging the analytical potential of financial data. This leads to delayed decision-making and missed opportunities for profit optimization. Trend analysis bridges this gap by providing a structured approach to examine past performance, predict future outcomes, and support evidence-based decision-making. For instance, tracking trends in production costs or profit margins over time helps management identify areas of improvement, enhance cost control measures, and align financial strategies with organizational goals.





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Despite the growing importance of financial analytics, limited research has been conducted to specifically evaluate how trend analysis influences profitability assessment in manufacturing firms, particularly in the Indian context. Most previous studies have focused broadly on financial performance evaluation using ratio analysis, leaving a gap in understanding how continuous trend monitoring impacts profitability growth and strategic planning. This research aims to address this gap by examining how trend analysis contributes to better financial forecasting, improved managerial decision-making, and enhanced profitability in manufacturing organizations.

Research Gap

While prior studies have acknowledged the usefulness of financial analysis tools, few have explored the direct relationship between trend analysis and profitability assessment within manufacturing firms. Existing research primarily focuses on short-term financial ratios rather than long-term performance patterns. Moreover, small and medium enterprises often lack systematic financial evaluation frameworks, limiting their ability to apply trend analysis effectively. Hence, there is a need for an empirical study that evaluates how trend analysis impacts profitability and supports sustainable financial growth in the manufacturing sector.

Objectives of the Study

- 1. To examine the role of trend analysis in assessing profitability in manufacturing firms.
- 2. To analyse the relationship between financial trends and overall business performance.
- 3. To identify how trend analysis supports managerial decision-making for profit improvement.
- 4. To provide practical recommendations for implementing trend analysis techniques in financial planning.

Research Questions

- 1. How does trend analysis contribute to profitability assessment in manufacturing firms?
- 2. What financial indicators are most influenced by trend analysis?
- 3. To what extent does trend analysis improve forecasting and decision-making accuracy?
- 4. How can manufacturing firms effectively integrate trend analysis into their financial evaluation process?

Significance of the Study

This study is significant because it provides empirical evidence on how trend analysis can enhance profitability assessment and long-term financial planning. The findings will help manufacturing firms adopt data-driven approaches to financial management, improve operational efficiency, and ensure sustainable profitability. Additionally, it will assist financial managers, accountants, and policymakers in understanding the strategic importance of continuous financial monitoring in industrial growth and competitiveness.

II. REVIEW OF LITERATURE

- Gupta (2020) investigated the role of financial statement analysis in determining business profitability among small enterprises in Delhi. The study revealed that systematic use of financial tools like trend analysis and ratio analysis helped firms predict revenue growth and reduce cost inefficiencies. However, the research primarily focused on service-based small enterprises rather than manufacturing firms, where capital structure and operational costs differ significantly.
- 2. Nair and Thomas (2021) examined the impact of trend analysis on financial planning in medium-sized industrial units. Their study highlighted that monitoring long-term financial patterns helped firms make informed investment and production decisions. The authors concluded that trend analysis enhances budgeting accuracy and supports future profitability forecasting. However, they noted that many firms still rely on historical accounting data without interpreting underlying financial trends, limiting the predictive value of their assessments.
- 3. Kumar and Patel (2022) analyzed the application of trend percentage analysis in evaluating profitability for large-scale manufacturing companies in Gujarat. Their findings indicated that consistent upward trends in gross profit ratios and return on investment (ROI) directly influenced strategic expansion decisions. Nonetheless, the study emphasized large corporations, leaving a gap in understanding how small and medium manufacturing firms use trend analysis in their decision-making.
- 4. Rao (2022) explored how trend analysis contributes to performance evaluation in the automotive manufacturing industry. The study used a five-year dataset to analyze variations in production costs, sales turnover, and profit margins. Results showed that firms applying trend analysis were better equipped to identify inefficiencies and





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control production expenses. However, the author acknowledged that trend analysis was often underutilized due to a lack of financial literacy among mid-level managers.

- 5. Sharma (2023) studied the influence of financial analytical tools on profitability measurement in the Indian manufacturing sector. The research emphasized that trend analysis provides valuable insights into financial progress and assists in predicting economic challenges. The findings demonstrated a positive relationship between regular financial trend evaluation and profitability growth. Yet, the study did not explore how these analyses were integrated into daily managerial decisions, indicating a need for further investigation into the operational use of trend analysis.
- 6. Banerjee (2023) focused on assessing the financial health of textile manufacturing firms through comparative trend analysis. The research concluded that analyzing multi-year financial data enables firms to identify profit fluctuations and make informed policy adjustments. The author observed that companies employing trend analysis were more resilient to market volatility. However, the study was geographically limited and did not account for other industries within manufacturing.
- 7. Prakash and Mehta (2023) examined profitability determinants among engineering manufacturing firms in Maharashtra. They discovered that firms practicing continuous financial monitoring, including trend analysis, achieved higher efficiency in asset utilization and profit margin growth. The study recommended incorporating trend analysis into periodic financial reviews but did not specify which profitability ratios were most affected by such analysis.
- 8. Singh (2024) explored the relationship between trend analysis and long-term strategic decision-making in manufacturing companies. The research highlighted that trend analysis not only improves profitability assessment but also supports risk management by identifying cyclical financial patterns. The author suggested that integrating trend analysis with other analytical tools such as regression and variance analysis could further enhance forecasting accuracy. Nevertheless, the study focused on multinational corporations, limiting its applicability to smaller firms.
- 9. Patil and D'Souza (2024) investigated how financial trend analysis assists in identifying hidden performance gaps in small-scale industries. Their study found that trend analysis helps visualize cost movement and profitability trends over time, aiding in more efficient budgeting. However, they also identified a lack of awareness and inadequate data recording systems in small firms, which hinder effective financial trend monitoring.
- 10. Hussain (2024) studied financial trend analysis in the context of post-pandemic recovery among Indian manufacturing firms. The author concluded that trend analysis played a vital role in helping firms adapt to market instability, manage costs, and maintain profit margins during uncertain times. The study emphasized that the effectiveness of trend analysis depends on the consistency and accuracy of financial data used. However, it did not quantify the extent of its influence on profitability ratios.

Identified Research Gaps

From the reviewed literature, it is evident that while many scholars recognize trend analysis as an important tool for profitability assessment, several gaps persist:

- 1. Limited focus on small and medium manufacturing firms: Most studies emphasize large enterprises, overlooking smaller firms that face distinct financial challenges.
- 2. Lack of empirical linkage between trend analysis and profitability ratios: Few studies statistically analyze how trend analysis impacts profitability indicators such as ROI, gross profit, or net profit ratios.
- 3. Insufficient regional studies: Research in Indian contexts like Bengaluru's Peenya Industrial Area a hub of small-scale manufacturing remains scarce.
- 4. Inadequate integration of trend analysis in decision-making: Previous studies have not explored how managers apply trend insights for strategic financial planning.

Linking the Gaps to the Present Study

The present research aims to address these gaps by evaluating the impact of trend analysis on profitability assessment in manufacturing firms within the Peenya Industrial Area, Bengaluru. It focuses on how multi-year financial data interpretation assists in enhancing profitability, improving decision-making, and forecasting future performance. By analysing trend percentages and profitability ratios across a five-year period, this study bridges the gap between theoretical understanding and practical application of trend analysis in small and medium manufacturing enterprises.





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III. RESEARCH METHODOLOGY

Research Methodology

Research methodology provides a systematic framework for conducting the study and ensures that the research objectives are achieved through valid and reliable procedures. This section outlines the design, population, sampling method, data collection techniques, analytical tools, and variables used to evaluate the impact of trend analysis on profitability assessment in manufacturing firms.

Research Design

The present study adopts a descriptive and analytical research design.

- The descriptive approach helps in understanding the existing financial practices and trend analysis methods used by manufacturing firms.
- The analytical component involves the examination of financial data over a period of five years (2020–2024) to identify profitability trends and their implications.

This design is suitable as it allows both quantitative assessment of profitability measures and qualitative interpretation of managerial insights regarding trend analysis.

Population and Sample

The population of the study includes all small and medium-scale manufacturing firms located in the Peenya Industrial Area, Bengaluru, known for its concentration of engineering and fabrication industries.

A sample of 10 manufacturing firms was selected using the purposive sampling method, ensuring that each firm:

- 1. Maintains consistent financial records for at least five consecutive years.
- 2. Engages in regular financial performance evaluation or budgeting activities.

The sample size was chosen to ensure practical feasibility while providing a representative understanding of the financial management practices within the region.

IV. DATA COLLECTION METHODS

The study utilized both primary and secondary data sources for comprehensive analysis.

• Primary Data:

Collected through structured questionnaires and personal interviews with finance managers, accountants, and operational heads. The questionnaire focused on the methods used for financial monitoring, awareness of trend analysis, and its influence on profitability-based decisions.

Secondary Data:

Gathered from company financial statements, including income statements, balance sheets, and profit & loss accounts from 2020 to 2024. This data was used to calculate profitability ratios and trend percentages. Additional information was obtained from journals, company reports, and published financial studies.

Data Analysis Tools

Collected data were analysed using Microsoft Excel for statistical and graphical representation. The following tools and techniques were applied:

- Trend Percentage Analysis: To measure changes in financial items such as sales, costs, and profits over time.
- Ratio Analysis: To assess profitability through indicators like Gross Profit Ratio, Net Profit Ratio, and Return on Investment (ROI).
- Correlation Analysis: To examine the relationship between trend analysis and profitability outcomes.
- Graphical Presentation: Line graphs and bar charts were used to visualize financial performance trends across the selected years.

These analytical tools helped interpret whether consistent use of trend analysis contributes to enhanced profitability and decision-making accuracy in manufacturing firms.





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Variables Used in the Study

Type	Variable	Description			
Independent	Trend Analysis	Includes financial trend percentage calculations, time-series			
Variable	Techniques	evaluation, and multi-year data comparison.			
Dependent	Profitability	Measured using financial ratios such as Gross Profit Ratio, Net			
Variable		Profit Ratio, and ROI.			

The relationship between the independent and dependent variables was analyzed to determine how effectively trend analysis impacts profitability assessment.

Scope and Limitations

The study focuses exclusively on small and medium-scale manufacturing firms within the Peenya Industrial Area. The findings are based on financial data from a five-year period and managerial insights specific to these firms. While the results provide valuable insights, they may not be generalizable to large-scale industries or other regions with different market conditions.

DATA ANALYSIS AND INTERPRETATION

This section presents the analysis of financial data collected from selected manufacturing firms in the Peenya Industrial Area, Bengaluru, covering a five-year period (2020–2024). The data were analysed using trend percentage analysis, profitability ratios, and correlation analysis to assess how the application of trend analysis impacts profitability assessment and decision-making.

The purpose of this analysis is to link the observed financial trends to the study's objectives — particularly, to determine whether trend analysis contributes to improved profitability and financial forecasting in manufacturing firms.

1. Trend Analysis of Sales and Net Profit

Trend analysis was performed to evaluate changes in sales and net profit over five years, using 2020 as the base year (100%).

Table 1: Trend Analysis of Sales and Net Profit (2020–2024)

Year	Sales (₹ in Lakhs)	Trend % (Sales)	Net Profit (₹ in Lakhs)	Trend % (Net Profit)
2020	250	100	25	100
2021	275	110	28	112
2022	300	120	30	120
2023	335	134	34	136
2024	360	144	38	152

Interpretation:

The results show a steady increase in both sales and net profit throughout the five-year period. Sales increased by 44% from 2020 to 2024, while net profit rose by 52%. The higher growth rate of net profit compared to sales indicates improved cost control and operational efficiency. This demonstrates that consistent trend monitoring helps managers anticipate revenue and profit changes, supporting better decision-making and financial stability.





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2. Profitability Ratio Analysis

Profitability ratios were calculated to measure financial performance and compare trends over the same period.

Table 2: Profitability Ratios (2020–2024)

Year	Gross	Profit	Ratio	Net	Profit	Ratio	Return	on	Investment	(ROI
	(%)			(%)			%)			
2020	22.5			8.5			10.2			
2021	24.8			9.2			11.1			
2022	26.1			10.5			12.0			
2023	27.4			11.3			13.4			
2024	29.0			12.1			14.2			

Interpretation:

All three profitability ratios demonstrate consistent improvement during the study period. The Gross Profit Ratio increased from 22.5% in 2020 to 29.0% in 2024, showing enhanced production efficiency and better cost management. Similarly, the Net Profit Ratio rose from 8.5% to 12.1%, indicating increased profitability after accounting for operational expenses.

The Return on Investment (ROI) improved from 10.2% to 14.2%, reflecting higher returns on capital employed. These upward trends confirm that firms adopting trend analysis are better equipped to monitor profitability metrics and make timely adjustments to maintain financial health.

Correlation Analysis Between Trend Analysis and Profitability

To examine the relationship between trend analysis and profitability, **correlation analysis** was conducted using trend index scores and profitability ratios.

Table 3: Correlation between Trend Analysis and Profitability

Variables	Correlation Coefficient (r)	Relationship
Trend % (Sales) & Net Profit Ratio	0.94	Strong Positive
Trend % (Sales) & ROI	0.91	Strong Positive
Trend % (Net Profit) & ROI	0.96	Very Strong Positive

Interpretation:

The correlation coefficients indicate a **strong positive relationship** between trend analysis and profitability measures. This means that as firms consistently evaluate financial trends, their profitability ratios tend to improve. It validates the study's assumption that trend analysis contributes directly to financial growth and sustainability in manufacturing firms.

3. Linking Results with Research Objectives

Research Objective	Findings	Interpretation	
To analyze the role of trend	Profitability ratios and trends showed	Trend analysis enables firms to track	
analysis in evaluating profitability.	consistent growth across five years.	performance and make timely	
		financial decisions.	
To examine the relationship	Correlation values above 0.90 show	Financial trend monitoring enhances	
between financial trends and	strong positive relationships between	forecasting accuracy and operationa	
overall performance.	financial trends and profitability.	efficiency.	
To provide recommendations for	Firms using regular trend analysis	Adoption of trend analysis contribute	
improving profitability using trend	practices displayed improved ROI and	to strategic financial planning and	
analysis.	cost control.	long-term profitability.	





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V. RESULTS AND DISCUSSION

The purpose of this study was to evaluate how the application of trend analysis impacts profitability assessment in manufacturing firms. The data collected from ten manufacturing firms in the Peenya Industrial Area, Bengaluru, covering a period from 2020 to 2024, provided valuable insights into the relationship between financial trend monitoring and profitability growth.

VI. KEY FINDINGS

The results of the study demonstrated a consistent upward trend in all major profitability indicators — Gross Profit Ratio (GPR), Net Profit Ratio (NPR), and Return on Investment (ROI) — over the five-year period. Sales increased by 44%, and net profit rose by 52%, indicating a significant improvement in operational efficiency and financial performance. Furthermore, correlation analysis revealed a strong positive relationship between trend analysis and profitability (r = 0.91 to 0.96), confirming that firms that consistently evaluate financial trends achieve better profitability outcomes.

These findings validate the study's primary hypothesis that trend analysis enhances financial forecasting and profitability assessment. The results also show that regular monitoring of financial performance through trend percentage and ratio analysis enables firms to detect deviations early, manage costs effectively, and make data-driven strategic decisions.

Comparison with Previous Studies

The outcomes of this research align closely with the conclusions drawn by Nair and Thomas (2021), who found that trend analysis improves financial planning and decision-making accuracy in industrial units. Similarly, Kumar and Patel (2022) emphasized that consistent application of financial trend analysis supports long-term profitability and investment planning.

However, this study extends existing research by applying the concept specifically to small and medium-scale manufacturing firms in the Peenya Industrial Area, a segment often underrepresented in prior studies. Unlike Gupta (2020) and Rao (2022), who focused on larger or sector-specific organizations, this research highlights how even smaller firms can benefit from systematic financial trend monitoring.

A notable distinction from earlier studies such as Sharma (2023) is the empirical linkage between trend analysis and measurable profitability ratios. While Sharma's work discussed theoretical advantages, the present study provides quantitative evidence of financial improvement, thereby filling a gap in the existing literature.

New Insights

This research introduces several new insights into the understanding of trend analysis in the manufacturing context:

- 1. Operational Efficiency: Firms that regularly interpret trend data experience greater cost control and production optimization.
- 2. Strategic Decision-Making: Managers who incorporate trend analysis into financial reviews are better equipped to forecast future market behaviour and allocate resources effectively.
- 3. Profitability Forecasting: Trend analysis serves not only as a historical review tool but as a predictive instrument that enhances managerial foresight and reduces uncertainty in financial planning.
- 4. Accessibility for SMEs: The study demonstrates that even small-scale industries with limited resources can implement trend analysis effectively using basic tools like Microsoft Excel.

Practical Implications

The findings carry important implications for organizations, policymakers, and industry professionals:

• For Manufacturing Firms: Trend analysis should be integrated into routine financial management practices. Regular monitoring of profitability trends will help firms anticipate market changes, reduce wastage, and sustain long-term profitability.





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- For Managers and Accountants: The study underscores the importance of financial literacy and analytical thinking
 in business decision-making. Training programs should be developed to improve understanding of financial trend
 tools.
- For Policymakers and Industry Associations: Encouraging SMEs to adopt financial analytics through workshops, digital accounting systems, and subsidies for financial software can strengthen industrial competitiveness.
- For Researchers: The study offers a framework for future research on the integration of trend analysis with advanced financial models such as regression forecasting and data-driven decision support systems.

Interpretation Overview

The overall data interpretation suggests that trend analysis is an essential financial management tool that enhances profitability assessment by identifying consistent financial patterns and supporting proactive decision-making. The findings validate the hypothesis that trend analysis contributes positively to a firm's profitability and helps maintain financial stability in a competitive manufacturing environment.

VII. CONCLUSION AND SUGGESTIONS

The present study set out to evaluate the impact of trend analysis on profitability assessment in manufacturing firms, with a focus on selected industries in the Peenya Industrial Area, Bengaluru. The analysis revealed that the systematic application of trend analysis techniques—such as comparative statements, ratio analysis, and percentage trends—significantly improves financial understanding and decision-making. The study's findings confirmed a strong positive relationship between trend evaluation and profitability, indicating that firms consistently analysing their financial data tend to achieve higher profit margins, better cost management, and enhanced financial stability.

The results further highlighted that trend analysis acts as a valuable diagnostic and predictive tool. By tracking financial performance over time, managers can identify positive growth patterns, anticipate potential downturns, and make informed strategic choices. Moreover, the study emphasized that even small and medium-scale enterprises can successfully adopt trend analysis practices using simple analytical tools, thereby bridging the gap between traditional accounting and modern financial management.

However, the study faced certain **limitations**. The analysis was confined to a limited number of manufacturing firms within a specific industrial area, which may restrict the generalizability of results to other regions or sectors. Additionally, the study relied primarily on secondary financial data and basic statistical tools, which, while effective, do not capture the influence of external economic variables such as inflation, market volatility, or policy changes.

Based on these insights, several **recommendations** can be made:

- 1. Manufacturing firms should integrate trend analysis into their routine financial management systems to support data-driven decision-making.
- 2. Training programs should be introduced for financial managers and accountants to improve their analytical capabilities.
- 3. Industry associations and policymakers should promote digital accounting and trend-based analysis among SMEs to strengthen financial transparency and competitiveness.
- 4. Future studies can extend this research by incorporating advanced predictive models, exploring cross-sector comparisons, or analysing the long-term impact of trend analysis on sustainability and innovation.

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