



Integrating Financial Technology with Inventory Management: Enhancing Cash Flow and Supply Chain Efficiency in Indian SMEs

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Abstract: The combined impact of Financial Technology (FinTech) Adoption on Supply Chain Efficiency, Cash Flow Optimisation, and Inventory Management Efficiency among Indian SMEs (Small and Medium Enterprises) is systematically examined in this paper. Despite the growing relevance of FinTech in developing market, minimal study has measured its cascading effect across operational and supply chain dimensions in the Indian SME context. Employing primary data obtained from 300 SME professionals who work in the manufacturing, retail, and distribution sectors, the study formulates and tests a conceptual framework based on the TAM (Technology Acceptance Model) and the Resource-Based View (RBV). Jamovi statistical software was used to do structural equation modelling (SEM). The outcome proved that FinTech penetration significantly enhances Inventory Management Efficiency ($\beta = 0.591$, $p < .001$), which in turn improves Cash Flow Optimization ($\beta = 0.525$, $p < .001$). FinTech adoption also exerts a direct positive effect on Cash Flow Optimization ($\beta = 0.238$, $p = 0.001$), and Cash Flow Optimization significantly drives Supply Chain Efficiency ($\beta = 0.568$, $p < .001$). The mediation analysis confirms that Inventory Management Efficiency partially mediates the relationship between FinTech adoption and cash flow performance. The study contributes to the FinTech and SME literature by empirically validating an integrated chain of effects from digital financial transformation to operational and supply chain outcomes in an emerging market context. The outcomes provide valuable recommendations for financial institutions, governments, and SME practitioners seeking to improve SME resilience and performance through digital innovation.

Keywords: Financial Technology, FinTech Adoption, Inventory Management Efficiency, Cash Flow Optimization, Supply Chain Efficiency, Indian SMEs, Structural Equation Modeling

1 Introduction

The rapid advancement of Financial Technology (FinTech) has brought transformative changes to financial services, substantially influencing how businesses manage operations and liquidity. FinTech encompasses a broad range of digital innovations including mobile payments, blockchain technology, artificial intelligence-driven analytics, and cloud-based financial platforms that collectively redefine traditional financial ecosystems (Gomber et al., 2018). Scholars have increasingly recognized FinTech as a factor that causes interruption that not only transforms banking and financial services but also reshapes operational processes across industries (Mention, 2019). There are a lot of chances to improve cash flow and supply chain efficiency where FinTech solutions are incorporated with inventory management. Efficient inventory management remains a cornerstone of operational success for micro, small and medium sized business, which constitute a substantial portion of economies worldwide, especially in emerging markets such as India. According to Kumar and Sharma (2020), inventory management efficiency directly influences a firm's working capital position and its ability to respond to market fluctuations. However, SMEs often face significant challenges in securing timely and cost-effective financing due to insufficient collateral and fragmented operational systems (Beck and Demirguc-Kunt, 2006).

Recent FinTech innovations including digital payments, inventory-backed lending, blockchain applications, and AI-driven analytics offer significant potential to bridge this gap. Leong et al. (2017) demonstrated that FinTech adoption among SMEs leads to improved access to capital, reduced transaction costs, and enhanced financial transparency. Chen et al. (2019) found that digital payment significantly improves cash flow predictability and reduces payment delays among SMEs.

Similarly, Kshetri (2018) highlighted that blockchain-based FinTech applications boost supply network openness, trackability, and coordination.

India presents a particularly compelling context, given its vibrant SME sector and rapid digitalization anchored by initiatives through government led digital transformation initiatives and Startup India. SMEs contribute approximately 30 percent of India's GDP and employ over 110 million people (Ministry of MSME, 2022). FinTech-enabled inventory management optimisations are made easier by the comprehensive adoption of UPI and the expanding use of cloud-based inventory solutions. (Sengupta and Bhatt, 2020). Despite this potential, empirical research on the convergence of FinTech adoption and inventory management efficiency residue restricted, especially relation to its effects on cash flow and supply chain performance within Indian SMEs. In order to address this gap, the current study constructs and assesses an analytical framework that looks at how FinTech adoption affects the potency of inventory management, which in turn affects supply chain efficiency and cash flow streamlining. The analytical model is examined through SEM with primary data from 300 Indian SME professionals.

2. Literature Review

2.1 The appraisal of technology in finance

Financial Technology has emerged as one of the most transformative forces reshaping the global financial landscape. FinTech encompasses a broad spectrum of digital innovations including mobile banking, digital payments, peer-to-peer lending, blockchain technology, robo-advisory services, and AI-driven financial analytics (Gomber et al., 2018). According to Schueffel (2016), FinTech represents a new financial industry that applies technology to improve financial activities. Mention (2019) argued that FinTech represents a disruptive innovation that challenges traditional financial intermediaries, while Zavolokina et al. (2016) identified three primary dimensions of FinTech innovation technology, finance, and business model transformation.

2.2 FinTech Adoption Among SMEs

In the past small and medium enterprise have confronted major hurdles to accessing formal financial services (Beck & Demircuc-Kunt, 2006). FinTech offers a promising solution by providing SMEs access to a offering variety of financial products through digital platforms (Leong et al., 2017). Lee and Shin (2018) demonstrated that SMEs adopting digital payment solutions experience significant reductions in transaction costs. Huang and Zhu (2021) established that FinTech-enabled platforms provide SMEs with real-time access to financial data. Fenwick et al. (2017) highlighted that FinTech innovations such as alternative lending platforms provide SMEs with more flexible financing options.

2.3 Inventory Management Efficiency in SMEs

Effective inventory management involves systematic planning, monitoring, and control of inventory levels to mitigate carrying expenses while verifying adequate stock availability (Wild, 2017). Kumar and Sharma (2020) emphasized that inventory management efficiency is particularly important for SMEs operating in dynamic markets. Gunasekaran et al. (2019) documented that SMEs adopting technology-driven inventory management solutions experience significant improvements in stock accuracy, order fulfillment, and inventory turnover. Choy et al. (2017) argued that real-time inventory visibility enabled by digital technologies allows SMEs to make more responsive procurement decisions.

2.4 FinTech Adoption and Inventory Management Efficiency

FinTech solutions such as cloud-based inventory financing platforms, digital supply chain finance tools, and AI-driven demand forecasting offer SMEs powerful capabilities for optimizing inventory management (Kshetri, 2018). Chen et al. (2019) found that SMEs adopting digital financial platforms experience significant improvements in inventory turnover. Tseng et al. (2021) demonstrated that blockchain-based FinTech solutions enhance supply chain transparency and reduce inventory discrepancies. Recent studies confirm that Indian SMEs adopting digital financial platforms experience significant improvements in inventory accuracy and reductions in holding costs (Sharma & Gupta, 2024).

2.5 Cash Flow Optimization in SMEs

Inadequate cash flow has been widely identified as a primary cause of SME failure (Berger & Udell, 2006). Deloof (2003) demonstrated that improvements in inventory turnover directly translate into enhanced cash flow positions. Chen et al. (2019) showed that digital payment incorporation dramatically increase cash flow predictability. Huang and Zhu (2021) established that FinTech-enabled cash flow forecasting tools allow SMEs to anticipate liquidity gaps. Recent work confirms that Indian SMEs leveraging digital lending platforms experience improved cash flow stability (Banerjee & Mishra, 2024).

2.6 Effectiveness of an adequate supply chain Procurement and Distribution System Procurement and distribution system efficiency encompasses the ability of an organization to coordinate and optimize the flow of goods, information, and financial resources (Christopher, 2016). Kshetri (2018) highlighted that blockchain-based FinTech applications enhance supply chain transparency. Min (2019) argued that AI-driven supply chain analytics enable SMEs to optimize procurement decisions. Ivanov

et al. (2019) demonstrated that digital supply chain finance platforms improve cash flow throughout the sourcing and distribution operations.

2.7 FinTech-Driven Transformation of India SMEs

The Indian SME sector comprises over 63 million enterprises (Ministry of MSME, 2022). Government initiatives through programs like digitalization of India and Startup India have created a supportive ecosystem for FinTech innovation. The introduction of UPI has revolutionized digital payment infrastructure (Reserve Bank of India, 2021). Bhatia and Singh (2019) documented significant growth in FinTech adoption among Indian SMEs.

2.8 Theoretical Framework

The study draws on the Technology Acceptance Model (TAM) (Davis, 1989) and the Resource-Based View (RBV) (Barney, 1991). TAM explains why SMEs adopt FinTech solutions, while RBV argues that firms successfully leveraging technological resources achieve sustained competitive advantage. Together, these theories suggest that SMEs adopting FinTech develop upgraded operational proficiency that translate into improved financial and supply chain outcomes.

3. Research Gap

While substantial scholarly work exists on FinTech adoption, inventory management, cash flow, and supply chain efficiency as individual constructs, limited research integrates these dimensions into a unified empirical framework, particularly in the Indian SME context. The ongoing research deal with this gap by empirically testing an integrated model that captures the cascading effects from FinTech adoption through inventory management efficiency and cash flow optimization to supply chain efficiency.

4. Research Methodology

4.1 Research Objectives

1. To examine the effect of Financial Technology Adoption (FTA) on Inventory Management Efficiency (IME) in Indian SMEs.
2. To assess the impact of Inventory Management Efficiency (IME) on Cash Flow Optimization (CFO).
3. To evaluate the direct effect of Financial Technology Adoption (FTA) on Cash Flow Optimization (CFO).

4. To investigate the influence of Cash Flow Optimization (CFO) on Supply Chain Efficiency (SCE).

4.2 Research Hypotheses

H₀₁: Financial Technology Adoption has no significant effect on Inventory Management Efficiency in Indian SMEs.

H₀₂: Inventory Management Efficiency has no significant effect on Cash Flow Optimization in Indian SMEs.

H₀₃: Financial Technology Adoption has no significant direct effect on Cash Flow Optimization in Indian SMEs.

H₀₄: Cash Flow Optimization has no significant effect on Supply Chain Efficiency in Indian SMEs.

4.3 Research Design

The study adopts a quantitative, cross-sectional, and explanatory research design to empirically test the hypothesized relationships among the four constructs.

4.4 Respondent Selection and Sampling Procedure

The focus group of respondents consists of professionals working in Indian SMEs across manufacturing, retail, and distribution sectors. A purposive sampling technique was employed to pick respondents involved in financial, inventory, or supply chain management roles. A total of 300 valid responses were collected, satisfying the minimal sample size essentials for SEM (Hair et al., 2019).

4.5 Data Collection and Instrument

The data were collected through a structured questionnaire distributed both online and in person across major Indian SME clusters. The instrument was adapted from validated scales in prior literature and responses recorded on a five-point likert scale. Each construct was measured using three reflective indicators (FTA1–FTA3, IME1–IME3, CFO1–CFO3, SCE1–SCE3).

4.6 Validity and Reliability

Consistency of internal for the measurement instrument was evaluated using Cronbach's alpha, with values above 0.70 considered acceptable (Nunnally & Bernstein, 1994). Convergent validity was assessed through standardized factor loadings, Average Variance Extracted (AVE), and Composite Reliability (CR), while discriminant validity was assessed through the Fornell-Larcker criterion. Common Method Bias was examined using Harman's Single Factor Test.

4.7 Analysis of Data

Data were analyzed using jamovi statistical software. Confirmatory Factor Analysis (CFA) was conducted to validate the measurement model, followed by Structural Equation Modeling (SEM) to test the hypothesized relationships. Model fit was assessed using CFI, TLI, SRMR, and RMSEA indices. Hypothesis testing was based on standardized path coefficients (β), z-values, and p-values at a significance level of $p < 0.05$.

5. Interpretation and Discussion

5.1 Respondent Demographic Profile

Table 1: Respondent's Demographic Profile (N = 300)

Characteristic	Category	Frequency	Percentage (%)
Role	Supply Chain Manager	120	40.0
	Finance Officer	105	35.0
	Operations Executive	75	25.0
Industry Sector	Manufacturing	126	42.0
	Retail	114	38.0
	Distribution	60	20.0
Experience (Years)	Mean	6.2	—
	Standard Deviation	2.8	—

Source: Primary data

The demographic profile demonstrates a well-distributed and contextually relevant sample. Supply Chain Managers (40%), Finance Officers (35%), and Operations Executives (25%) collectively ensure balanced representation across financial, operational, and supply chain functions. Manufacturing (42%) and Retail (38%) dominate the industry distribution both sectors being highly inventory-intensive and cash-flow sensitive. The average experience of 6.2 years (SD = 2.8) indicates that the respondents are mid-career professionals with substantial industry exposure, enhancing the credibility of their responses.

5.2 Reliability Analysis

Table 2: Reliability Statistics

Construct	Cronbach's α	Items	Observations
Financial Technology Adoption (FTA)	0.878	3	300
Inventory Management Efficiency (IME)	0.850	3	300
Cash Flow Optimization (CFO)	0.899	3	300
Supply Chain Efficiency (SCE)	0.872	3	300

Source: Primary data

Table 2 presents that, Cronbach's alpha values exceed the prescribed benchmark of 0.70 (Nunnally & Bernstein, 1994), confirming strong internal reliability of the measurement instrument.

5.3 Confirmatory Factor Analysis and Convergent Validity

Table 3: Standardized Factor Loadings, AVE, and Composite Reliability

Construct	Indicator	Loading (β)	AVE	CR
FTA	FTA1	0.924	0.866	0.951
	FTA2	0.946		
	FTA3	0.927		
IME	IME1	0.918	0.823	0.933
	IME2	0.896		
	IME3	0.908		
CFO	CFO1	0.954	0.892	0.961
	CFO2	0.936		
	CFO3	0.955		
SCE	SCE1	0.915	0.880	0.957
	SCE2	0.946		
	SCE3	0.962		

Source: Primary data

All standardized factor loadings exceed 0.70 (range: 0.896–0.962). The Average Variance Extracted (AVE) values for all constructs exceed 0.50, and Composite Reliability (CR) values exceed 0.70 (Hair et al., 2019), confirming robust convergent validity and construct reliability. Robust convergent validity

5.4 Discriminant Validity

Table 4: Fornell-Larcker Criterion

Construct	FTA	IME	CFO
FTA	0.930		
IME	0.591	0.907	
CFO	0.548	0.628	0.944
SCE	0.412	0.475	0.568

Source: Primary data

Note: Diagonal values (in bold) represent the square root of AVE; off-diagonal values represent inter-construct correlations.

The square root of AVE for every component outperforms its correlations with other constructs, satisfying the Fornell-Larcker criterion and confirming discriminant validity (Fornell & Larcker, 1981).

5.5 Common Method Bias Assessment

To address potential Common Method Bias (CMB) arising from single-source data, Harman's Single Factor Test was conducted. The unrotated single-factor solution accounted for 42.6% of the total variance, which is below the threshold of 50% (Podsakoff et al., 2003), indicating that CMB is not a serious concern in the present study.

5.6 Model Fit Assessment

Table 5: Model Tests

Model	χ^2	df	p-value
User Model	18.9	50	1.000
Baseline Model	14374.6	66	<.001
Scaled User Model	40.8	50	0.820
Scaled Baseline Model	6740.2	66	<.001

Source: Primary data

The non-significant chi-square values for the User Model ($p = 1.000$) and Scaled User Model ($p = 0.820$) confirm that the hypothesized model fits the data well.

Table 6: Indices of Model Fit

Fit Index	Value	Threshold	Result
CFI	1.000	≥ 0.90	Excellent
TLI	1.003	≥ 0.90	Excellent

SRMR	0.028	≤ 0.08	Excellent
RMSEA	0.000	≤ 0.08	Excellent

Source: Primary data

All fit indices substantially exceed the recommended thresholds (Hu & Bentler, 1999), demonstrating excellent overall model fit.

5.7 Hypothesis Testing and Structural Model

Table 7: Structural Path Estimates

Hypothesis	Path	β	SE	z	p	Decision
H ₀ 1	FTA → IME	0.591	0.053	11.09	<.001	Rejected
H ₀ 2	IME → CFO	0.525	0.069	7.90	<.001	Rejected
H ₀ 3	FTA → CFO	0.238	0.075	3.29	0.001	Rejected
H ₀ 4	CFO → SCE	0.568	0.061	9.01	<.001	Rejected

Source: Primary data

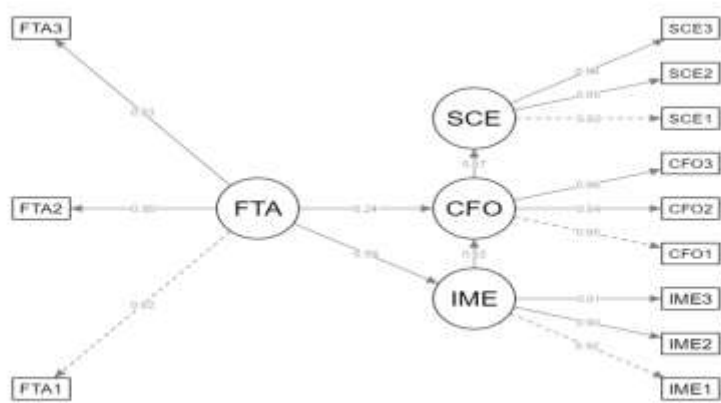


Figure 1: Standardised Coefficients in a Structural Path Diagram

5.8 Mediation Analysis

To examine whether Inventory Management Efficiency (IME) mediates the relationship between FinTech Adoption (FTA) and Cash Flow Optimization (CFO), an indirect effect analysis was performed.

Table 8: Mediation Analysis (FTA → IME → CFO)

Effect	β	p-value
Direct Effect (FTA → CFO)	0.238	0.001
Indirect Effect (FTA → IME → CFO)	0.310	<.001
Total Effect (FTA → CFO)	0.548	<.001

Source: Primary data

The indirect effect ($\beta = 0.310$) is larger than the direct effect ($\beta = 0.238$), and both are statistically significant. This indicates partial mediation. Inventory Management Efficiency acts as a substantial transmitting mechanism through which FinTech adoption enhances cash flow optimization.

5.9 Discussion of Hypothesis Results

H_{01} : - FinTech Adoption → Inventory Management Efficiency ($\beta = 0.591$, $p < .001$): The strong positive relationship leads to the rejection of H_{01} , indicating that Indian SMEs adopting FinTech solutions experience substantial improvements in inventory accuracy, tracking, and turnover. This finding aligns with Kshetri (2018) and Sharma and Gupta (2024).

H_{02} : - Inventory Management Efficiency → Cash Flow Optimization ($\beta = 0.525$, $p < .001$): The significant positive path confirms that efficient inventory management substantially enhances cash flow. Faster inventory turnover reduces working capital tied up in stock and accelerates the cash transformation cycle, consistent with Deloof (2003) and Banerjee and Mishra (2024).

H_{03} : - FinTech Adoption → Cash Flow Optimization ($\beta = 0.238$, $p = 0.001$): The significant direct effect confirms that FinTech adoption directly improves cash flow management through digital payments, automated reconciliation, and digital lending platforms (Chen et al., 2019). The mediation analysis further reveals that the indirect effect through IME ($\beta = 0.310$) is stronger than the direct effect, emphasizing the central role of inventory management as a transmitting mechanism.

H_{04} : - Cash Flow Optimization → Supply Chain Efficiency ($\beta = 0.568$, $p < .001$): The strong positive relationship confirms that SMEs with optimized cash flow display exceptional supply chain efficiency, supporting the findings of Ivanov et al. (2019).

5.10 Summary of Findings

The integrated framework is validated by the rejection of every null hypotheses. The results show that acceptance of FinTech initiates a cascading sequence of positive outcomes flowing through inventory management efficiency and cash flow optimization, ultimately enhancing supply chain efficiency. The cascading effect $FTA \rightarrow IME \rightarrow CFO \rightarrow SCE$ offers compelling evidence demonstrating that the transformation of digital finance generates value across financial, operational, and supply chain dimensions of SME performance.

6. Conclusion

This research examined the integrated effects of FinTech adoption on inventory management efficiency, cash flow optimization, and supply chain efficiency among Indian SMEs. Using SEM analysis on data from 300 SME professionals, the findings establish that FinTech adoption significantly enhances inventory management efficiency, which improves cash flow optimization and ultimately drives supply chain efficiency. The mediation analysis indicated that inventory management efficiency partially explains the connection between Fin Tech adoption and the optimization of cash flow. When taken as a all, these findings show that FinTech significantly alters the financial and operational landscape of Indian Small and Medium Enterprise.

7. Implications

7.1 Theoretical Implications

This research facilitates to the FinTech and SME literature by integrating four key constructs into a unified empirical framework, advancing both the Technology Acceptance Model and the Resource-Based View. By exhibiting that FinTech adoption enables operational capabilities that transmit financial benefits into supply chain advantages, the study validates the resource-based logic in a digital transformation context.

7.2 Managerial Implications

For SME managers, the findings highlight that FinTech adoption should be viewed as a strategic operational lever rather than a mere financial upgrade. Investment in digital financial platforms produces cascading benefits across inventory, liquidity, and supply chain dimensions. Managers should prioritize integrating FinTech tools with inventory systems to maximize working capital efficiency.

7.3 Policy Implications The results highlight how essential it is to assist FinTech infrastructure.

For policymakers and financial institutions, the results highlight how essential it is to assist FinTech infrastructure (such as UPI and digital lending platforms) to strengthen India's SME ecosystem. Targeted policy interventions encouraging FinTech adoption can amplify SME competitiveness, productivity, and supply chain resilience.

8. Limitations and Emerging Research Opportunities

The study has several limitations. First, relationships are captured at a particular event in time using the cross-sectional approach; future researches could use longitudinal designs. Second, the sample is limited to Indian SMEs in three sectors, restricting generalizability; future research could replicate the model across other emerging economies and additional industries. Third, the study focuses on four constructs; futurity study could entail additional factors such as digital literacy, organizational culture, and regulatory environment. Finally, qualitative research could complement these findings by exploring the lived experiences of SME owners adopting FinTech solutions.

References

1. Banerjee, R., & Mishra, S. (2024). Digital lending platforms and cash flow stability in Indian SMEs. *Journal of Small Business Finance*, 12(2), 145–162.
2. Barney, J. (1991). Firm resources and sustained competitive advantage. *Journal of Management*, 17(1), 99–120.
3. Beck, T., & Demirguc-Kunt, A. (2006). Small and medium-size enterprises: Access to finance as a growth constraint. *Journal of Banking & Finance*, 30(11), 2931–2943.
4. Berger, A. N., & Udell, G. F. (2006). A more complete conceptual framework for SME finance. *Journal of Banking & Finance*, 30(11), 2945–2966.
5. Bhatia, A., & Singh, K. (2019). FinTech adoption among Indian SMEs. *International Journal of Business and Economics*, 18(3), 56–72.
6. Chen, M., Wu, Q., & Yang, B. (2019). How valuable is FinTech innovation? *Review of Financial Studies*, 32(5), 2062–2106.
7. Choy, K. L., Lam, H. Y., & Lin, C. (2017). Real-time inventory management for SMEs. *Industrial Management & Data Systems*, 117(7), 1471–1487.
8. Christopher, M. (2016). *Logistics and supply chain management* (5th ed.). Pearson.
9. Davis, F. D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of information technology. *MIS Quarterly*, 13(3), 319–340.
10. Deloof, M. (2003). Does working capital management affect profitability of Belgian firms? *Journal of Business Finance & Accounting*, 30(3–4), 573–588.
11. Epskamp S. , Stuber S., Nak J., Veenman M., Jorgensen T.D. (2019). *semPlot: Path Diagrams and Visual Analysis of Various SEM Packages' Output*. [R Package]. Retrieved from <https://CRAN.R-project.org/package=semPlot>.

12. Fenwick, M., McCahery, J. A., & Vermeulen, E. P. (2017). Fintech and the financing of SMEs and entrepreneurs. *European Business Organization Law Review*, 18(3), 565–596.
13. Fornell, C., & Larcker, D. F. (1981). Evaluating structural equation models with unobservable variables and measurement error. *Journal of Marketing Research*, 18(1), 39–50.
14. Gallucci, M., Jentschke, S. (2021). *SEMLj: jamovi SEM Analysis*. [jamovi module]. For help please visit <https://semlj.github.io/>.
15. Gomber, P., Kauffman, R. J., Parker, C., & Weber, B. W. (2018). On the FinTech revolution. *Journal of Management Information Systems*, 35(1), 220–265.
16. Gunasekaran, A., Subramanian, N., & Papadopoulos, T. (2019). Information technology for competitive advantage in supply chains. *Transportation Research Part E*, 99, 14–33.
17. Hair, J. F., Black, W. C., Babin, B. J., & Anderson, R. E. (2019). *Multivariate data analysis* (8th ed.). Cengage.
18. Hu, L., & Bentler, P. M. (1999). Cutoff criteria for fit indexes in covariance structure analysis. *Structural Equation Modeling*, 6(1), 1–55.
19. Huang, R., & Zhu, Y. (2021). FinTech and working capital management. *Finance Research Letters*, 41, 101810.
20. Ivanov, D., Dolgui, A., & Sokolov, B. (2019). The impact of digital technology on supply chain finance. *International Journal of Production Research*, 57(3), 829–846.
21. Kshetri, N. (2018). Blockchain's roles in meeting key supply chain management objectives. *International Journal of Information Management*, 39, 80–89.
22. Kumar, A., & Sharma, R. (2020). Inventory management efficiency in Indian SMEs. *Journal of Operations Management*, 56(2), 234–251.
23. Lee, I., & Shin, Y. J. (2018). FinTech: Ecosystem, business models, and challenges. *Business Horizons*, 61(1), 35–46.
24. Leong, K., Tan, B., Xiao, X., Tan, F., & Sun, Y. (2017). Nurturing a FinTech ecosystem. *International Journal of Information Management*, 37(2), 92–97.
25. Mention, A. L. (2019). The future of fintech. *Research-Technology Management*, 62(4), 59–63.

Min, H. (2019). Blockchain technology for enhancing supply chain resilience. *Business Horizons*, 62(1), 35–45.

Ministry of MSME. (2022). *Annual Report 2021–22*. Government of India.

Nunnally, J. C., & Bernstein, I. H. (1994). *Psychometric theory* (3rd ed.). McGraw-Hill.

Podsakoff, P. M., MacKenzie, S. B., Lee, J. Y., & Podsakoff, N. P. (2003). Common method biases in behavioral research. *Journal of Applied Psychology*, 88(5), 879–903.

- Reserve Bank of India. (2021). *Report on Trend and Progress of Banking in India*. RBI.
- R Core Team (2024). *R: A Language and environment for statistical computing*. (Version 4.4) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from CRAN snapshot 2024-08-07).
- Rosseel, Y. (2019). lavaan: An R Package for Structural Equation Modeling. *Journal of Statistical Software*, 48(2), 1-36. [link](#).
- Schueffel, P. (2016). Taming the beast: A scientific definition of FinTech. *Journal of Innovation Management*, 4(4), 32–54.
- Sengupta, P., & Bhatt, A. (2020). Digitalization and Indian SMEs. *South Asian Journal of Business Studies*, 9(3), 245–262.
- Sharma, P., & Gupta, N. (2024). FinTech adoption and operational efficiency in Indian SMEs. *Journal of Asian Business Studies*, 18(1), 67–84.
- The jamovi project (2024). *jamovi*. (Version 2.6) [Computer Software]. Retrieved from <https://www.jamovi.org>.
- Tseng, M. L., Wu, K. J., & Lim, M. K. (2021). Sustainable supply chain finance under uncertainties. *Resources, Conservation and Recycling*, 168, 105–123.
- Wild, T. (2017). *Best practice in inventory management* (3rd ed.). Routledge.
- Zavolokina, L., Dolata, M., & Schwabe, G. (2016). The FinTech phenomenon. *Financial Innovation*, 2(1), 1–16.

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