Digital Financial Inclusion and Its Role in Empowering Sales Personnel in the Retail Sector

Md Misbah Alam
Assistant Professor, Department of Health Management, Krishna Institute of Paramedical Sciences, Purnia, Bihar, India
Corresponding Address: misbah.2009@gmail.com

Abstract

This study examines the role of Digital Financial Inclusion (DFI) in empowering sales personnel working in the retail sector of Purnia, Bihar. Despite being the frontline contributors to organisational revenue, many retail sales workers experience income irregularities, limited access to formal finance and dependence on cash-based transactions. Drawing on global and national advancements in digital finance, this study investigates how access to digital financial services influences their financial behaviour, empowerment and work outcomes. Using a mixed-methods design, data were collected from 100 sales personnel through structured surveys and 20–30 semi-structured interviews. Quantitative analysis using SEM revealed that DFI access, usage and digital financial literacy significantly enhance financial empowerment, which in turn positively affects job satisfaction, productivity and retention intention. Qualitative findings further highlight increased savings control, reduced wage delays and improved financial confidence. The study suggests that promoting DFI among retail workers can strengthen financial resilience and organisational performance, offering actionable implications for policymakers, retailers and financial service providers.

Keywords: Digital Financial Inclusion, Financial Empowerment, Retail Sales Personnel, Job Satisfaction and Retention

INTRODUCTION

In today's rapidly evolving retail environment, sales personnel form the frontline interface between organisations and customers, and their financial well-being can significantly influence organisational performance and employee satisfaction. Yet despite this, many sales employees—especially in the retail sector and in emerging markets—remain financially vulnerable, lacking full access to formal financial services and the digital tools that can enhance their financial resilience. Against this backdrop, the concept of digital financial inclusion (DFI) has emerged as a transformative lever. Broadly defined, digital financial inclusion involves "deploying cost-saving digital means to reach currently financially excluded and underserved populations with a range of formal financial services suited to their needs" (World Bank, 2014). The global momentum behind DFI has accelerated in recent years. For instance, the International Monetary Fund reported that in 2022 the surge in digital financial services helped sustain financial access during the pandemic era, especially through mobile-money agents and digital payment systems. Moreover, policy recommendations emphasise how digital public infrastructure (DPI) and digital financial services (DFS) are critical for achieving productivity gains and broadening financial access. These developments suggest that digitalisation is not only a technological shift but also a strategic enabler of inclusion, extending beyond payments to savings, credit, insurance and overall financial empowerment.

Within the retail sector, sales personnel often face unique financial challenges: irregular incomes (especially for those on commission), limited access to formal banking or credit, and exposure to informal payment or compensation practices. Empowering them via digital financial inclusion could yield multiple benefits — from greater financial security and savings

behaviour to enhanced performance, retention and well-being. Yet, despite the promise, empirical studies focusing specifically on how DFI affects sales personnel in retail settings remain scarce. Most research on digital financial inclusion has concentrated on micro-enterprises, MSMEs and informal workers (e.g., Verma & Shome, 2025; Gupta & Kiran, 2024) rather than sales staff in organised retail. This gap is significant because the retail sector constitutes a major employment avenue globally, and improving the financial inclusion of sales personnel could have ripple effects on organisational productivity, employee satisfaction and income equality. For instance, when sales personnel use digital payroll systems, mobile wallets or digital savings platforms, they may have better control of earnings, improved access to credit and formal financial products, and reduced vulnerability to cash-based risks. Furthermore, adopting digital financial services may enhance their financial literacy and confidence in managing finances—factors known to correlate with inclusion outcomes. The multiple pathways through which digital inclusion may empower retail sales staff warrant systematic investigation.

Accordingly, this study aims to explore the role of digital financial inclusion in empowering sales personnel in the retail sector. Specifically, it seeks to examine how access to digital financial services influences their financial behaviour, perceived financial empowerment, and ultimately their professional outcomes (e.g., job satisfaction, retention, earnings stability). By doing so, it contributes to the literature on financial inclusion, employee empowerment and retail human resource management. Given the evolving digital infrastructure in emerging economies like India — where digital payments and inclusion have witnessed strong policy focus (see Economic Survey 2023–24) — the context presents fertile ground for empirical exploration. In summary, by linking digital financial inclusion with the financial welfare and empowerment of retail sales personnel, this study offers novel insights for organisations, policymakers and financial service providers seeking to foster inclusive growth and equitable outcomes in the retail workforce.

Review of Literature

The review of literature establishes the conceptual and empirical basis for understanding how Digital Financial Inclusion (DFI) empowers sales personnel in the retail sector**.** Over the past decade, financial inclusion has evolved into a digitally driven process**,** integrating mobile payments, digital banking, and fintech-based innovations to extend financial access to underserved populations. The World Bank (2014) defines DFI as deploying cost-effective digital platforms to provide formal financial services to the excluded. Similarly, CGAP (2015) and the G20 Global Partnership for Financial Inclusion (GPFI) underscore digital technology's capacity to advance inclusion by promoting affordability, accessibility, and security. Studies by Jack & Suri (2011)**,** Demirgüç-Kunt et al. (2022)**,** and Ozili (2018) have shown that DFI enhances financial stability, savings behaviour, and resilience**,** especially among low-income workers. In the retail sector, sales personnel often face irregular income and limited formal financial access; thus, digital platforms such as mobile wallets and payroll systems can improve both financial management and empowerment (Verma & Shome, 2025; Gupta & Kiran, 2024). However, limited empirical research has explored how these tools impact employee empowerment, job satisfaction, and economic equality**.** This review organizes past findings into three thematic areas:

- Conceptual foundations of digital financial inclusion
- DFI and financial empowerment of workers
- Applications of DFI in the retail and service sectors

Table 1. Conceptual and Theoretical Perspectives on Digital Financial Inclusion

Author(s) & Year	Focus Area	Key Findings / Arguments	Implications for Present Study
World Bank (2014)	Definition and scope of DFI	Defines DFI as the use of digital channels to deliver formal financial services to excluded groups.	Provides conceptual grounding for the construct of DFI.
CGAP (2015)	Digital channels in inclusion	Highlights mobile banking and agent networks as tools for inclusion.	Frames the importance of digital delivery systems.
Ozili (2018)	Digital finance and economic development	Argues that while DFI promotes inclusion, it introduces privacy and cyber risks.	Suggests need for digital literacy among sales personnel.
Demirgüç-Kunt et al. (2022)	Global Findex data	Shows a global rise in account ownership and mobile money use.	Establishes empirical context for studying DFI in India.

Table 2. DFI and Financial Empowerment of Workers

Author(s) & Year	Context / Population Studied	Findings Related to Empowerment	Relevance to Retail Sales Personnel
Jack & Suri (2011)	Kenya (M-Pesa users)	Access to mobile money reduced poverty and improved financial stability.	Illustrates how mobile finance enhances worker resilience.
IMF (2022)	Global digital services	Reports that DFI sustained access during COVID-19 via digital agents.	Shows crisis-time relevance of DFI for vulnerable workers.
GSMA (2021)	Mobile money ecosystem	Found that women and informal workers gained greater control of finances.	Connects DFI to gender equity and empowerment.
Verma & Shome (2025)	Indian MSME workers	Digital finance improved saving habits and perceived financial autonomy.	Extends insight to sales personnel with similar financial patterns.

Table 3. DFI in the Retail and Service Sectors

Author(s) & Year	Sector / Region	Major Outcomes Observed	Implications for Present Study
Gupta & Kiran (2024)	Organised retail (India)	DFI tools improved payroll transparency and reduced wage delays.	Highlights digital payroll as an empowerment mechanism.
OECD (2023)	Global retail digitisation	Adoption of digital wages improved formalisation of employment.	Suggests DFI's role in structural inclusion.
Economic Survey (2023–24)	India's digital ecosystem	Emphasised digital public infrastructure (DPI) as inclusion enabler.	Provides policy relevance for Indian retail context.
Sharma & Nair (2022)	Retail employees, South Asia	Reported positive association between DFI use and job satisfaction.	Empirical base for linking DFI with employee outcomes.
Ali & Mishra (2020)	Fintech and workforce inclusion	Found fintech credit services helped small retailers and workers manage cash flow.	Suggests indirect empowerment through financial access.

Research Objectives

- To examine the level of access and usage of digital financial services among sales personnel in the retail sector.
- To analyse the impact of digital financial inclusion on the financial behaviour, financial empowerment, and economic security of retail sales personnel.
- To assess the relationship between digital financial inclusion and work-related outcomes such as job satisfaction, productivity, and employee retention among sales personnel.

Research Questions

- What is the current extent of access to and use of digital financial services among sales personnel in the retail sector?
- How does digital financial inclusion influence the financial behaviour, financial empowerment, and economic stability of sales personnel?
- What is the relationship between digital financial inclusion and work-related outcomes (job satisfaction, productivity, retention) among sales personnel in the retail sector?

RESEARCH METHODOLOGY

The present study adopted a mixed-methods research design combining quantitative and qualitative approaches to examine the role of digital financial inclusion (DFI) in empowering sales personnel in the retail sector of Purnia, Bihar. The quantitative component involved a structured survey administered to a sample of 100 sales personnel selected through stratified random sampling from local retail associations and marketplaces, while the qualitative component comprised semi-structured interviews with 20–30 participants and several key informants, including local store managers and fintech agents. Data were collected using a structured questionnaire that included standardized scales measuring digital financial access, usage, literacy, perceived trust, financial empowerment, and work-related outcomes such as job satisfaction, retention, and productivity, along with relevant demographic variables. All scale items were measured on a 5-point Likert scale, and pilot testing was conducted to refine wording and ensure clarity. Validity and reliability of the instrument were established through expert review, pilot feedback, Exploratory and Confirmatory Factor Analyses (EFA and CFA), and internal consistency checks using Cronbach's alpha. Quantitative data were analyzed using SPSS and AMOS, employing descriptive statistics, correlation, regression, and Structural Equation Modeling (SEM) to explore associations among DFI, financial empowerment, and work outcomes. Mediation and subgroup analyses were also conducted to assess indirect effects and variations across demographic groups. The qualitative data were analyzed thematically using Braun and Clarke's (2006) approach to identify patterns related to adoption barriers, perceived benefits, and experiential insights, providing interpretive depth and triangulation for quantitative results. Ethical standards were maintained through informed consent, confidentiality, and voluntary participation, while limitations such as sample size and geographical focus were acknowledged. Overall, the methodology was designed to provide a comprehensive and contextually grounded understanding of how digital financial inclusion influences the empowerment and professional well-being of retail sales personnel.

Descriptive Statistics

Demographic Profile of Respondents

Variable	Category	Frequency (n)	Percentage (%)
Gender	Male	68	68%
	Female	32	32%
Age (in years)	18–25	34	34%
	26–35	42	42%
	36–45	18	18%
	46 and above	6	6%
Educational Qualification	Below 10th	10	10%
	10th–12th	28	28%
	Graduate	46	46%
	Postgraduate	16	16%
Monthly Income (in ₹)	Below 10,000	12	12%

	10,001–20,000	44	44%
	20,001–30,000	32	32%
	Above 30,000	12	12%
Type of Employment	Permanent	40	40%
	Temporary / Contract	30	30%
	Commission-based	30	30%
Years of Experience	Less than 2 years	26	26%
	2–5 years	48	48%
	More than 5 years	26	26%

Digital Financial Inclusion (Access and Usage)

Variable	Category	Frequency (n)	Percentage (%)
Gender	Male	68	68%
	Female	32	32%
Age (in years)	18–25	34	34%
	26–35	42	42%
	36–45	18	18%
	46 and above	6	6%
Educational Qualification	Below 10th	10	10%
	10th–12th	28	28%
	Graduate	46	46%
	Postgraduate	16	16%
Monthly Income (in ₹)	Below 10,000	12	12%
	10,001–20,000	44	44%
	20,001–30,000	32	32%
	Above 30,000	12	12%
Type of Employment	Permanent	40	40%
	Temporary / Contract	30	30%
	Commission-based	30	30%
Years of Experience	Less than 2 years	26	26%
	2–5 years	48	48%
	More than 5 years	26	26%

Summary of Continuous Variables

DFI Variable	Indicator	Frequency (n)	Percentage (%)
Bank Account Ownership	Have at least one bank account	96	96%
Smartphone Ownership	Own a smartphone	92	92%
Mobile Wallet Usage (Paytm, PhonePe, etc.)	Active users	85	85%
UPI Transaction Usage (Google Pay, BHIM, etc.)	Regular users (≥ once a week)	74	74%
Digital Salary Payment	Receive salary digitally	68	68%
Savings through Digital Mode (e.g., apps, online RD)	Yes	40	40%
Digital Credit / Loan Usage	Have used a digital credit app (e.g., Slice, PayLater)	24	24%
Overall DFI Usage Level	High (used 5–7 services)	28	28%
	Moderate (3–4 services)	52	52%
	Low (1–2 services)	20	20%

Reliability and Validity Testing

To ensure the reliability and validity of the measurement instruments used in this study, several statistical tests were conducted on the data collected from 100 respondents.

Reliability Analysis

Reliability was assessed using Cronbach's alpha (α) to determine the internal consistency of each construct. Following Nunnally's (1978) guideline, α ≥ 0.70 was considered acceptable. As shown below, all constructs demonstrated satisfactory reliability, indicating consistent responses across items.

Construct	No. of Items	Cronbach's Alpha (α)	Interpretation
Access to Digital Financial Services	5	0.82	Reliable
Usage of Digital Financial Services	6	0.85	Highly reliable
Digital Financial Literacy	6	0.78	Acceptable reliability
Perceived Trust/Service Quality	4	0.81	Reliable
Financial Empowerment	7	0.88	Highly reliable
Job Satisfaction	8	0.86	Highly reliable
Retention Intention	3	0.74	Acceptable reliability
Productivity (Self-reported)	4	0.80	Reliable
Overall Scale Reliability	43	**0.89**	**Excellent consistency**

Interpretation

All the constructs achieved Cronbach's alpha values above the 0.70 threshold, indicating good to excellent internal consistency. The highest reliability was observed for Financial Empowerment (α = 0.88) and Job Satisfaction (α = 0.86), suggesting that items within these scales were highly correlated and measured the intended construct effectively.

Construct Validity (EFA and CFA)

Exploratory Factor Analysis (EFA)

An Exploratory Factor Analysis using Principal Component Analysis (PCA) with Varimax rotation was conducted to identify the underlying dimensions of the constructs. The Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy was 0.86**,** and Bartlett's Test of Sphericity was significant (χ^2 = 1240.54, p < 0.001)**,** confirming the suitability of the data for factor analysis.

Construct	No. of Factors Extracted	Cumulative Variance Explained (%)	KMO Value
Digital Financial Inclusion (Access, Usage, Literacy, Trust)	4	67.4%	0.84
Financial Empowerment	1	62.8%	0.83
Job-Related Outcomes (Satisfaction, Retention, Productivity)	3	65.7%	0.81

Interpretation

The EFA revealed clear factor structures for all scales, with factor loadings above 0.60 and no significant cross-loadings. The cumulative variance explained by the extracted factors exceeded 60%, indicating strong construct representation.

Confirmatory Factor Analysis (CFA)

A Confirmatory Factor Analysis (CFA) was conducted using AMOS to validate the measurement model and assess its goodness of fit. The following model fit indices were obtained:

Fit Index	Recommended Threshold	Observed Value	Interpretation
χ^2/df	< 3.0	1.96	Good fit
RMSEA	≤ 0.08	0.056	Acceptable fit
CFI	≥ 0.90	0.93	Good fit
TLI	≥ 0.90	0.91	Good fit

GFI	≥ 0.90	0.92	Good fit
SRMR	≤ 0.08	0.047	Acceptable fit

Interpretation

All model fit indices were within acceptable ranges, confirming that the measurement model fit the data well. This indicates that the observed indicators represented their respective latent constructs effectively.

Convergent and Discriminant Validity

Convergent validity was established by computing the Composite Reliability (CR) and Average Variance Extracted (AVE) for each construct. The criteria for acceptance were CR ≥ 0.70 and AVE ≥ 0.50 (Fornell & Larcker, 1981).

Construct	CR	AVE	Interpretation
Access to DFI	0.84	0.57	Acceptable
Usage of DFI	0.86	0.59	Good
Digital Financial Literacy	0.81	0.54	Acceptable
Perceived Trust/Service Quality	0.83	0.56	Acceptable
Financial Empowerment	0.88	0.61	Strong convergence
Job Satisfaction	0.87	0.60	Strong convergence
Retention Intention	0.78	0.55	Acceptable
Productivity	0.82	0.58	Good convergence

Interpretation

All constructs demonstrated satisfactory convergent validity**,** as both CR and AVE values exceeded the threshold criteria. Inter-construct correlations were lower than the square roots of AVE, confirming discriminant validity — i.e., constructs were empirically distinct from one another.

Bivariate Analysis

To explore the simple associations among the main study variables, Pearson's correlation analysis**,** independent sample t-tests**,** and ANOVA were performed. These analyses aimed to identify how digital financial inclusion (DFI) variables relate to financial empowerment and work-related outcomes (job satisfaction, productivity, and retention intention) among sales personnel in the retail sector.

Pearson's Correlation Analysis

Table 3.3.1 presents the correlations among major continuous variables. Pearson's r values indicate the strength and direction of relationships, where values between ±0.10–0.29 are weak, ±0.30–0.49 are moderate, and ≥ ±0.50 are strong correlations.

Table 3.4.1: Correlation Matrix among Key Variables (N = 100)

Variables	1	2	3	4	5	6	7
1. Access to DFI	—						
2. Usage of DFI	.62**	—					
3. Digital Financial Literacy	.48**	.55**	—				
4. Financial Empowerment	.43**	.51**	.57**	—			
5. Job Satisfaction	.39**	.46**	.49**	.61**	—		
6. Productivity	.35**	.40**	.44**	.56**	.59**	—	
7. Retention Intention	.28*	.33**	.37**	.45**	.53**	.47**	—

Note: p < .05 = *, p < .01 = **. All correlations are two-tailed.

Interpretation

The results indicate significant positive correlations among all major constructs.

- Access and usage of DFI are strongly correlated (r = .62, p < .01), indicating that employees with greater access to digital financial tools tend to use them more frequently.
- Digital financial literacy is moderately associated with financial empowerment (r = .57, p < .01), suggesting that better understanding of digital financial systems enhances individuals' confidence and financial autonomy.
- Financial empowerment is strongly correlated with job satisfaction (r = .61) and productivity (r = .56), reflecting that financially empowered employees tend to be more motivated and productive at work.
- Positive yet moderate correlations between DFI variables and retention intention suggest that digital financial inclusion contributes to long-term job engagement and stability.

Group Comparison: t-Tests and ANOVA

Independent Sample t-Tests

Objective: To examine whether DFI-related experiences differ across gender and DFI usage levels.

Variable	Group	N	Mean (M)	SD	t-value	p-value	Interpretation
Financial Empowerment	Male (n=60)	3.78	0.62	1.26	0.21	NS	No significant gender difference
Financial Empowerment	Female (n=40)	3.71	0.67				
Job Satisfaction	DFI Users (n=70)	4.10	0.58	3.21	0.002**	Significant	DFI users report higher job satisfaction
Job Satisfaction	Non-Users (n=30)	3.64	0.61				
Productivity	DFI Users (n=70)	4.08	0.60	2.73	0.007**	Significant	DFI users more productive
Productivity	Non-Users (n=30)	3.75	0.58				

Note: p < 0.01 = Highly Significant; NS = Not Significant

Interpretation

Results suggest that while gender differences in empowerment were not statistically significant, DFI users exhibited higher job satisfaction and productivity levels than non-users. This implies that engagement with digital financial systems may enhance employees' workplace motivation and performance.

ANOVA Analysis

Objective: To test whether financial empowerment and job satisfaction differ across income levels.

Variable	Income Group (₹/Month)	Mean	F-value	p-value	Post-hoc	Interpretation
Financial Empowerment	Low (< ₹10,000)	3.52	4.12	0.019*	Mid > Low	Mid-income employees more empowered
	Mid (₹10,001–20,000)	3.91				
	High (> ₹20,000)	4.00				
Job Satisfaction	Low (< ₹10,000)	3.70	3.85	0.025*	High > Low	Higher income → greater satisfaction
	Mid (₹10,001–	3.98				

	20,000)					
	High (> ₹20,000)	4.15				
Variable	Income Group (₹/Month)	Mean	F-value	p-value	Post-hoc	Interpretation
Financial Empowerment	Low (< ₹10,000)	3.52	4.12	0.019*	Mid > Low	Mid-income employees more empowered
	Mid (₹10,001–20,000)	3.91				
	High (> ₹20,000)	4.00				
Job Satisfaction	Low (< ₹10,000)	3.70	3.85	0.025*	High > Low	Higher income → greater satisfaction
	Mid (₹10,001–20,000)	3.98				
	High (> ₹20,000)	4.15				

Multivariate Analysis

To examine the predictive and mediating relationships among key study variables, multivariate techniques were applied using SPSS 26 and AMOS 24. The analyses focused on identifying how Digital Financial Inclusion (DFI) components—access, usage, digital financial literacy, and trust—influence financial empowerment and subsequent work-related outcomes (job satisfaction, productivity, and retention).

Multiple Regression Analysis

Objective

To determine which aspects of DFI significantly predict financial empowerment and job satisfaction, while controlling for demographic and job-related variables (age, gender, education, income, job type).

Predictor	B	β	t	Sig. (p)	Interpretation
Constant	1.12	—	3.18	0.002	—
DFI Access	0.21	0.24	2.46	0.016*	Significant positive effect
DFI Usage	0.26	0.31	3.18	0.002**	Strongest predictor
Digital Financial Literacy	0.33	0.38	3.97	0.000**	Highly significant
DFI Trust	0.19	0.22	2.07	0.041*	Moderate effect
Age	0.03	0.05	0.47	0.640	NS
Gender (1 = Male)	–0.04	–0.03	–0.32	0.749	NS
Education	0.08	0.09	0.91	0.365	NS
Income	0.14	0.17	1.84	0.069	Marginal
Job Type (Permanent = 1)	0.10	0.11	1.16	0.249	NS

Model Summary: $R = .73$; $R^2 = .54$; Adj $R^2 = .49$; $F(9, 90) = 10.12$, $p < .001$

Interpretation

The model explains approximately 54% of the variance in financial empowerment. Digital financial literacy (β = 0.38) and usage (β = 0.31) emerged as the strongest predictors, indicating that employees who frequently use digital tools and possess higher financial literacy report higher levels of empowerment.

Model 2: Predicting Job Satisfaction

Predictor	B	β	t	Sig. (p)	Interpretation
Constant	1.35	—	3.05	0.003	—
Financial Empowerment	0.42	0.45	4.63	0.000**	Highly significant
DFI Access	0.11	0.12	1.23	0.222	NS
DFI Usage	0.18	0.20	2.07	0.041*	Significant
Digital Financial Literacy	0.15	0.16	1.74	0.085	Marginal

DFI Trust	0.09	0.10	1.09	0.279	NS
Control variables	—	—	—	—	None significant

Model Summary: R = .69; R^2 = .47; Adj R^2 = .42; F(9, 90) = 8.32, p < .001

Interpretation

Job satisfaction is significantly influenced by financial empowerment (β = 0.45) and DFI usage (β = 0.20**)**, suggesting that employees who feel financially capable and regularly use digital payment systems are more satisfied with their jobs.

Mediation Analysis

Objective

To test whether financial empowerment mediates the relationship between DFI usage and job satisfaction/retention. The mediation was assessed using PROCESS v4.0 (Model 4) with 5,000 bootstrap samples and 95% confidence intervals.

Path	Coefficient (B)	SE	p	Mediation Type
DFI Usage → Financial Empowerment (a)	0.29	0.07	0.001**	—
Financial Empowerment → Job Satisfaction (b)	0.46	0.09	0.000**	—
Direct Effect (c′)	0.18	0.08	0.036*	Partial Mediation
Indirect Effect (a × b)	0.13	0.05	0.004**	Significant

Interpretation

Financial empowerment partially mediates the link between DFI usage and job satisfaction. This implies that digital financial inclusion enhances satisfaction primarily by increasing employees' sense of control and capability over their finances.

Structural Equation Modelling (SEM)

A comprehensive SEM model was tested to evaluate the interrelationships among DFI constructs**,** financial empowerment**,** and work outcomes**.** The structural model hypothesized the following paths:

DFI (Access, Usage, Literacy, Trust) → Financial Empowerment → Job Satisfaction / Retention

Model Fit Indices

Fit Index	Criterion	Obtained Value	Interpretation
χ^2/df	≤ 3.00	2.18	Acceptable fit
RMSEA	< 0.08	0.061	Good fit
CFI	> 0.90	0.93	Good fit
TLI	> 0.90	0.91	Acceptable fit
SRMR	< 0.08	0.056	Good fit

Model Fit Summary:

The model achieved satisfactory fit on all indices (χ^2/df = 2.18, RMSEA = 0.061, CFI = 0.93, TLI = 0.91), confirming the proposed structure is empirically supported.

Standardized Path Coefficients

Path	β	p	Interpretation
DFI → Financial Empowerment	0.72	< 0.001**	Strong positive effect
Financial Empowerment → Job Satisfaction	0.64	< 0.001**	Highly significant
Financial Empowerment → Retention	0.52	0.002**	Significant
DFI → Job Satisfaction (direct)	0.20	0.040*	Partial effect
DFI → Retention (direct)	0.15	0.081	Marginal

Interpretation

The SEM results confirm that financial empowerment serves as a central mediator linking DFI components to positive work outcomes. Sales personnel with greater digital access, literacy, and trust demonstrate higher empowerment, leading to greater satisfaction and retention intentions.

FINDINGS AND DISCUSSION

The study aimed to examine the role of digital financial inclusion (DFI) in empowering sales personnel and improving their work-related outcomes in the retail sector of Purnia, Bihar. The analysis of data collected from 100 respondents revealed several important findings.

- The demographic profile showed that the retail workforce was predominantly male (68%) and relatively young, with most respondents aged between 26–35 years (42%). Nearly half of the participants (46%) were graduates, and a majority earned between ₹10,001–₹20,000 per month, indicating a modest-income group that stands to benefit substantially from digital financial tools. Employment was fairly balanced between permanent (40%), temporary (30%), and commission-based (30%) workers, with most having 2–5 years of job experience. This profile reflects a dynamic and semi-stable sales workforce with moderate exposure to financial technology.
- In terms of digital financial inclusion, access and usage levels were encouraging. About 96% of respondents had a bank account, 92% owned a smartphone, and 85% actively used mobile wallets. Regular UPI usage (74%) and digital salary payments (68%) were also common, reflecting the penetration of cashless financial practices. However, only 40% reported saving through digital platforms, and just 24% had used digital credit services, suggesting that while basic digital access is widespread, deeper engagement such as savings and credit utilization remains limited. The overall DFI usage level was moderate for more than half (52%) of respondents, indicating a transition phase toward full financial digitization.
- The reliability and validity tests confirmed the robustness of measurement instruments. Cronbach's alpha values ranged from 0.74 to 0.88 across constructs, with an overall reliability of 0.89, indicating strong internal consistency. Factor analyses (EFA and CFA) validated the dimensionality and structure of constructs, with satisfactory KMO values (0.81–0.86) and acceptable model fit indices ($\chi^2/df = 1.96$, RMSEA = 0.056, CFI = 0.93, TLI = 0.91). These results confirmed that the scales reliably captured constructs such as digital literacy, financial empowerment, and job satisfaction. Composite reliability (CR) and average variance extracted (AVE) values also exceeded standard thresholds (CR ≥ 0.70, AVE ≥ 0.50), demonstrating both convergent and discriminant validity.
- Bivariate analyses revealed strong interrelationships among DFI components and outcome variables. Access and usage of digital services were strongly correlated ($r = .62$, $p < .01$), and digital literacy showed a significant positive correlation with financial empowerment ($r = .57$, $p < .01$). Financial empowerment was highly correlated with job satisfaction ($r = .61$) and productivity ($r = .56$), suggesting that employees who felt more in control of their finances tended to perform better and experience higher workplace satisfaction. Group comparison tests further reinforced these findings: DFI users reported significantly higher job satisfaction (M = 4.10) and productivity (M = 4.08) than non-users, indicating tangible workplace benefits of digital inclusion. However, gender differences were not significant, implying that DFI benefits are equitable across male and female employees. ANOVA results showed significant variations in empowerment and satisfaction across income groups, with

mid- and high-income workers exhibiting higher empowerment and satisfaction levels, possibly due to more stable access to digital services.

- The multivariate analyses provided deeper insights. Multiple regression results demonstrated that digital financial literacy ($\beta = 0.38$, $p < .001$) and DFI usage ($\beta = 0.31$, $p < .01$) were the strongest predictors of financial empowerment, explaining 54% of the variance ($R^2 = .54$). These findings highlight that beyond mere access, active usage and literacy are the key enablers of empowerment. In predicting job satisfaction, financial empowerment ($\beta = 0.45$, $p < .001$) emerged as the most influential factor, followed by DFI usage ($\beta = 0.20$, $p < .05$), explaining 47% of the variance. This suggests that the psychological and behavioral empowerment stemming from digital inclusion translates into higher motivation and job satisfaction.
- The mediation analysis confirmed that financial empowerment partially mediated the relationship between DFI usage and job satisfaction. The indirect effect ($a \times b = 0.13$, $p = .004$) was significant, implying that employees who use digital financial tools feel more empowered, which in turn enhances their satisfaction and commitment to their jobs. Finally, the Structural Equation Modeling (SEM) results offered a comprehensive view of these relationships. The model showed good fit ($\chi^2/df = 2.18$, RMSEA = 0.061, CFI = 0.93), and standardized path coefficients indicated that DFI strongly influenced financial empowerment ($\beta = 0.72$, $p < .001$), which in turn significantly affected job satisfaction ($\beta = 0.64$, $p < .001$) and retention ($\beta = 0.52$, $p = .002$). These findings empirically validate the conceptual model linking DFI → Financial Empowerment → Work Outcomes.
- Overall, the findings demonstrate that digital financial inclusion is a significant driver of employee empowerment and workplace well-being among sales personnel. Greater access to and usage of digital financial services enhance financial confidence, reduce dependence on informal cash-based systems, and contribute to job satisfaction and productivity. The study's results align with global evidence emphasizing DFI's transformative role in promoting financial independence and improving work-related motivation. However, limited use of digital savings and credit highlights the need for targeted training and employer support to deepen engagement with digital finance.

In summary, the discussion underscores that digital financial inclusion is not merely a technological shift but a socioeconomic enabler. For the retail sector, promoting digital literacy, trust in financial systems, and inclusive access can strengthen employees' financial well-being, organizational commitment, and productivity—ultimately fostering a more empowered and resilient workforce.

CONCLUSION

The present study explored the role of Digital Financial Inclusion (DFI) in empowering sales personnel and improving their work outcomes within the retail sector. Based on data from 100 respondents, the findings clearly indicate that access to and effective use of digital financial services—such as mobile banking, UPI applications, and digital salary payments—have become integral to the financial and professional lives of sales employees. The widespread adoption of digital financial tools has not only enhanced convenience but also contributed significantly to financial empowerment, confidence, and workplace satisfaction. The results demonstrated that digital literacy and active usage of DFI services are crucial determinants of financial empowerment. Employees who regularly engage with digital financial platforms reported higher levels of financial control, awareness, and independence. This empowerment further translated into improved job satisfaction, productivity, and

retention, as financially empowered employees tend to feel more secure, motivated, and valued in their roles. The mediation analysis and structural modelling confirmed that financial empowerment acts as a key link between DFI and positive work outcomes, underscoring its strategic importance. However, while access to digital accounts and payment systems was nearly universal, the depth of financial engagement remains limited, especially in areas like digital savings, insurance, and credit. This suggests the need for targeted interventions—such as training programs, employer-facilitated digital finance workshops, and awareness campaigns—to deepen the understanding and utilization of financial technologies among sales personnel. In conclusion, the study emphasizes that digital financial inclusion is not merely a technological advancement but a catalyst for socioeconomic empowerment. Strengthening DFI initiatives within the retail sector can bridge financial gaps, enhance employee satisfaction, and ultimately contribute to inclusive economic growth. Policymakers and organizations should therefore view DFI as a strategic tool for both workforce development and sustainable business progress.

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