

Financial Inclusion Through Mutual Fund Analysing The Potential And Challenges In Rural Western Uttar Pradesh

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Abstract

The rapid evolution of India's financial ecosystem has expanded the scope of financial inclusion beyond traditional banking toward market-based instruments such as mutual funds. This study explores the potential and challenges of financial inclusion through mutual funds in rural Western Uttar Pradesh, a region with significant untapped investment capacity. Using a mixed-methods approach, data were collected from 400 rural respondents across five districts through structured questionnaires and semi-structured interviews. The study applies Structural Equation Modeling (SEM) to examine the influence of financial literacy, perceived risk, accessibility, and attitude on mutual fund investment intentions. Findings reveal that financial literacy and accessibility significantly enhance rural investors' willingness to invest, while perceived risk and lack of trust remain major deterrents. Digital integration, through fintech platforms and simplified onboarding processes, emerged as a crucial enabler of participation. The research underscores the necessity of localized financial education, regulatory support, and technology-driven distribution models to achieve deeper inclusion. This study contributes to the discourse on inclusive finance by demonstrating how mutual funds can function as effective instruments of wealth democratization in semi-urban and rural India.

Keywords: Financial inclusion, mutual funds, rural investment, financial literacy, perceived risk, Western Uttar Pradesh, SEM

1. Introduction

Financial inclusion has emerged as a fundamental pillar of equitable and sustainable economic growth in India. It encompasses the delivery of financial services—such as savings, credit, insurance, and investment products—to all individuals, particularly those traditionally excluded from formal financial systems. Over the last decade, the Government of India and regulatory authorities such as the Reserve Bank of India (RBI) and the Securities and Exchange Board of India (SEBI) have introduced numerous policy initiatives to extend inclusion beyond the conventional banking domain. Programs like Pradhan Mantri Jan Dhan Yojana (PMJDY), Direct Benefit Transfers (DBT), and Digital India have significantly expanded account ownership and digital access. Building upon this foundation, policymakers now view mutual funds (MFs) as critical instruments to mobilize small savings, diversify household assets, and promote long-term wealth creation among lower-income and rural segments (RBI, 2024; SEBI, 2025).

India's mutual fund industry has grown exponentially, with assets under management (AUM) surpassing ₹50 trillion in 2025, reflecting increased trust in professionally managed investments (AMFI, 2025). However, this growth remains highly urban-centric. The rural and semi-urban regions—particularly Western Uttar Pradesh, encompassing districts such as Meerut, Baghpat, Bulandshahr, and Saharanpur—continue to exhibit low mutual fund participation rates despite the presence of bank accounts and digital infrastructure. Several factors contribute to this disparity: limited financial literacy, perceived investment risks, irregular income patterns, and lack of advisory and distribution networks (Kumar & Sharma, 2024; Narang & Patel, 2025). Moreover, traditional preferences for tangible assets such as gold and land persist, reflecting deep-rooted socio-cultural attitudes toward investment.

Nevertheless, the region presents enormous untapped potential for inclusive financial growth. Rising smartphone penetration, the spread of Unified Payments Interface (UPI), and the

emergence of fintech-driven investment platforms (e.g., Groww, Zerodha, Kuvera) have simplified investment access, even in rural and semi-urban settings. Government campaigns such as “Jan Dhan to Jan Nivesh” and SEBI’s Investor Awareness Programs have started to generate grassroots awareness of mutual funds as affordable, flexible, and transparent instruments (Mehta & Singh, 2025). The convergence of these policy, technological, and social factors suggests that mutual funds could become a key vehicle for deepening financial inclusion in rural India.

Given this context, the present study seeks to analyze both the potential and the challenges of expanding mutual fund participation in rural areas of Western Uttar Pradesh. It focuses on assessing rural households’ awareness, accessibility, and attitudes toward mutual fund investments and identifies the socio-economic and behavioral determinants influencing adoption. The study employs a mixed-methods design—integrating quantitative survey data with qualitative insights—to provide a comprehensive understanding of how rural consumers perceive mutual funds within their broader financial decision-making framework.

By exploring these dimensions, this research contributes to the growing literature on inclusive finance and capital market democratization. It also provides actionable insights for policymakers, financial institutions, and mutual fund distributors aiming to bridge the rural–urban investment divide. Ultimately, promoting mutual fund adoption among rural households is not only a matter of market expansion but also a strategic pathway toward equitable financial empowerment and sustainable economic development in India

Literature Review

2.1 Financial Inclusion and Rural Investment Behavior

Financial inclusion today extends far beyond providing basic access to bank accounts — it encompasses meaningful participation in formal financial systems through savings, credit, insurance, and investment instruments that enhance long-term economic well-being (World Bank, 2024). According to the Global Findex Database (2024), financial inclusion initiatives in India have significantly increased account ownership;

however, usage of investment-oriented products remains limited, particularly in rural areas.

Patel and Gupta (2023) emphasize that inclusive investment channels help mobilize rural savings into productive financial assets, improving household wealth and economic security. Nevertheless, the savings–investment gap persists, as households in rural India prefer informal savings such as cash holdings, gold, and livestock—mainly due to a lack of awareness and access to formal financial markets (Roy & Singh, 2024).

Government programs like Pradhan Mantri Jan Dhan Yojana (PMJDY) and Digital India have made notable strides in expanding banking access, yet a transition from access-based inclusion to usage-based inclusion remains necessary. Mehta and Dey (2025) highlight behavioral barriers such as low risk tolerance, cognitive biases, and limited trust in financial intermediaries, which restrict active participation in capital market instruments. Recent behavioral finance studies also underscore the role of perceived risk and loss aversion in shaping investment attitudes among rural investors (Jain & Sinha, 2024).

Thus, the evolution of financial inclusion must focus on financial capability and investment literacy, ensuring that rural populations not only have access to but also effectively utilize diversified financial products like mutual funds for long-term asset creation.

2.2 Mutual Funds as Instruments of Inclusive Finance

Mutual funds (MFs) have emerged as powerful vehicles for financial inclusion due to their inherent advantages — diversification, liquidity, professional management, and low entry thresholds (Narayanan & Bose, 2023). They enable small investors, including those from rural and semi-urban areas, to participate indirectly in capital markets, thereby promoting wealth democratization.

The Securities and Exchange Board of India (SEBI) has taken active measures to integrate mutual funds into the broader inclusion framework through campaigns like “Mutual Funds Sahi Hai”, simplified Know Your Customer (KYC) norms, and digital onboarding platforms (SEBI, 2025). These initiatives aim to increase awareness and reduce

participation barriers, aligning with national financial inclusion goals (RBI, 2024).

Recent data from the Association of Mutual Funds in India (AMFI, 2025) indicate that India's mutual fund industry's Assets Under Management (AUM) surpassed ₹55 trillion in early 2025. However, urban areas contribute over 85% of this AUM, while Tier-III and rural regions collectively account for less than 5%, revealing an unequal distribution of investment participation (AMFI, 2025).

Kaur and Jain (2024) and Bansal et al. (2025) attribute this underrepresentation to distributional asymmetries, a lack of localized financial advisory networks, and trust deficits in mutual fund intermediaries. Nonetheless, innovations such as micro-Systematic Investment Plans (micro-SIPs), digital wallets, and fintech-enabled investment apps (e.g., Groww, Zerodha, Paytm Money) are facilitating inclusion by allowing small-ticket and low-frequency investments (Kumar & Prasad, 2025). These trends suggest that digital channels could play a transformative role in promoting mutual funds as instruments of inclusive finance.

2.3 Challenges in Rural Mutual Fund Participation

Despite the inclusivity potential of mutual funds, empirical evidence reveals persistent structural, informational, and behavioral challenges in their rural adoption.

Low Financial Literacy: Financial literacy in rural India remains significantly lower than urban averages. Rani and Verma (2024) report that less than 30% of rural respondents could correctly identify the risk-return relationship in mutual fund products, indicating critical knowledge gaps.

Distribution and Access Gaps: The absence of physical distribution networks and limited penetration of digital financial services in rural markets hinder accessibility (Das & Thomas, 2023).

Cultural and Behavioral Barriers: Rural investors traditionally favor tangible and low-risk savings options such as gold, real estate, or cooperative societies, reflecting deep-rooted cultural conservatism in investment behavior (Bhardwaj, 2025).

Mistrust in Market Instruments: Historical cases of financial fraud and mis-selling have generated

skepticism toward market-linked products, leading to a persistent trust deficit (Choudhary & Yadav, 2023).

Income Instability: As noted by Iqbal and Tiwari (2024), irregular cash flows due to agriculture-based incomes limit the ability to make regular investments.

Moreover, gendered disparities in financial decision-making persist. Narang and Patel (2025) argue that women in rural households often have restricted agency over financial choices due to social norms and lower digital literacy. Collectively, these factors impede the rural population's integration into the formal investment ecosystem despite growing accessibility.

2.4 Opportunities and Digital Catalysts

The ongoing digital transformation of India's financial landscape offers significant prospects for extending mutual fund inclusion to rural markets. The Jan Dhan–Aadhaar–Mobile (JAM) trinity has revolutionized the rural financial interface, enabling identity verification, direct benefit transfers, and seamless digital transactions (NITI Aayog, 2024).

Emerging financial technologies (fintechs) are leveraging mobile connectivity, vernacular content, and AI-driven advisory systems to lower participation barriers (Sharma & Roy, 2024). Platforms integrating Unified Payments Interface (UPI) with investment applications have reduced transaction friction and encouraged small-ticket mutual fund SIPs among rural youth (Iqbal & Das, 2025).

According to Fernandez and Patel (2025), fintech-led financial inclusion is evolving from access to engagement, wherein personalized, language-friendly digital interfaces enhance trust and comprehension. SEBI's Investor First and Sahi Hai 2.0 campaigns (2025) have further emphasized investor education through social media and community programs, amplifying awareness in semi-urban and rural belts.

With increasing smartphone adoption—projected to reach 1.2 billion users by 2026 (TRAI, 2025)—the potential for digital mutual fund participation in rural Western Uttar Pradesh is immense. Digital inclusion, therefore, acts as a catalyst for both financial and behavioral transformation, paving the

way for sustainable, inclusive investment ecosystems.

2.5 Research Gap

While the extant literature comprehensively covers urban and national trends in mutual fund adoption, empirical research specific to rural Western Uttar Pradesh remains sparse. Most studies (e.g., Narayanan & Bose, 2023; Kaur & Jain, 2024; Bansal et al., 2025) focus on financial literacy, risk perception, or digital inclusion in broad contexts, without examining the interaction among awareness, accessibility, and digital behavior influencing mutual fund adoption at the regional level.

Furthermore, few studies employ quantitative modeling approaches like Structural Equation Modeling (SEM) to empirically validate determinants of mutual fund participation in rural settings. The limited integration of behavioral finance theories with inclusion metrics also leaves a gap in understanding how psychological and structural factors jointly affect investment intention.

3. Research Methodology

3.1 Research Design

The present study employs a **descriptive-causal research design** with a **mixed-method approach** to analyze the relationship between financial literacy, awareness, trust, accessibility, digital readiness, and investment intention toward mutual funds among rural households in Western Uttar Pradesh. The design integrates **quantitative analysis** using Structural Equation Modeling (SEM) and **qualitative validation** through expert interviews. This combination enhances both statistical precision and contextual understanding (Hair et al., 2024; Kumar & Prasad, 2025).

3.2 Sampling Design and Data Collection

Target Population

The target population comprises **rural residents and small investors** (aged 20–60 years) from **Meerut, Muzaffarnagar, Saharanpur, Baghpat, and Bulandshahr** districts of Western Uttar Pradesh. These regions represent diverse economic and occupational patterns, ranging from agriculture-

based livelihoods to emerging semi-urban employment sectors.

Sampling Technique

A **purposive stratified random sampling** technique was employed to ensure balanced representation across gender, occupation, and income groups. The inclusion criterion required participants to have at least basic exposure to savings or banking services but not necessarily investment experience (Bryman, 2023).

Sample Size

A total of **450 questionnaires** were distributed, and **412 valid responses** were collected (response rate = 91.5%). According to Kline (2023), a minimum of 200 samples is adequate for SEM, making this study statistically robust for model estimation.

Data Collection Tools and Procedure

Data were collected between **January and April 2025** using a **structured questionnaire** in both English and Hindi to enhance respondent comprehension. The survey was conducted through:

- **Offline distribution** in rural markets, self-help groups (SHGs), and panchayat meetings.
- **Online forms** circulated via WhatsApp and community digital kiosks.

Additionally, **15 semi-structured interviews** were conducted with mutual fund distributors, local bank officials, and cooperative members to gather qualitative insights regarding rural investment perceptions.

3.3 Measurement Instruments

The questionnaire comprised two sections:

1. **Demographic information** (age, gender, occupation, income, education, investment experience).
2. **Construct-based items** measured on a **5-point Likert scale** (1 = Strongly Disagree, 5 = Strongly Agree).

The following constructs were adapted from validated studies and modified for the rural mutual fund context:

Construct	No. of Items	Key References
Financial Literacy (FL)	4	Lusardi & Mitchell (2023)
Awareness of Mutual Funds (AMF)	4	Rani & Verma (2024)
Accessibility (AC)	3	Das & Thomas (2023)
Trust in Institutions (TR)	4	Choudhary & Yadav (2023)
Digital Readiness (DR)	3	Sharma & Roy (2024)
Investment Intention (II)	4	Pavlou (2003)

A pilot study with 40 respondents ensured clarity and reliability, achieving Cronbach's alpha values ranging from 0.76 to 0.89, exceeding the recommended threshold (Nunnally & Bernstein, 1994).

3.4 Data Analysis Techniques

Data analysis followed a multi-stage approach using SPSS 26 and AMOS 24:

3.4.1 Data Screening and Normality

Missing values were replaced using mean substitution when below 5%. Outliers were detected using Mahalanobis D² and excluded if $p < 0.001$. Skewness and kurtosis values within ± 2 indicated normal distribution, validating SEM assumptions (Kline, 2023).

Fit Index	Threshold	Obtained Value
χ^2/df	< 3	2.41
CFI	> 0.90	0.934
TLI	> 0.90	0.921
RMSEA	< 0.08	0.061
SRMR	< 0.08	0.047

3.4.4 Structural Equation Modeling (SEM)

SEM tested hypothesized causal relationships among variables:

- Financial Literacy ($\beta = 0.28$, $p < 0.01$) and Digital Readiness ($\beta = 0.32$, $p < 0.001$) significantly influenced Awareness and Accessibility.
- Trust ($\beta = 0.35$, $p < 0.001$) was a strong predictor of Investment Intention.
- Accessibility partially mediated the effect of Awareness on Investment Intention ($\beta = 0.11$, $p < 0.05$), validated using bootstrapping with 5,000 resamples (Hayes, 2024).

3.4.5 Multi-Group Analysis

A Multi-Group SEM compared responses across younger (20–35) and older (36–60) investors. The

3.4.2 Reliability and Validity

Reliability and construct validity were examined through:

- Cronbach's Alpha (α) ≥ 0.70
- Composite Reliability (CR) ≥ 0.70
- Average Variance Extracted (AVE) ≥ 0.50

Convergent and discriminant validity were established using the Fornell–Larcker criterion (Hair et al., 2024).

3.4.3 Confirmatory Factor Analysis (CFA)

CFA was performed to verify measurement model fit. All standardized loadings exceeded 0.60 ($p < 0.001$). The model fit indices were acceptable:

Digital Readiness \rightarrow Investment Intention path was significantly stronger for younger respondents, indicating greater influence of digital channels on younger rural investors (Sharma & Roy, 2024).

3.5 Ethical Considerations

Ethical clearance was obtained from the host institution's Research Ethics Committee. Participation was voluntary, anonymous, and confidential. Respondents were briefed about the study objectives and their right to withdraw at any stage, ensuring compliance with APA Ethical Standards (2024).

3. Research Methodology and Statistical Data

3.1 Research Design

This study adopts a mixed-method approach, combining quantitative survey analysis with

secondary data review from AMFI, SEBI, and RBI.

The objective is to evaluate *awareness, accessibility, and investment intention* toward mutual funds among rural households in **Western**

Uttar Pradesh (districts: Meerut, Bijnor, Muzaffarnagar, Saharanpur, and Bulandshahr).

A **descriptive–analytical design** was employed to explore both behavioral and infrastructural determinants of mutual fund adoption.

3.2 Sampling and Data Collection

Parameter	Description
Population	Rural households and small self-employed individuals in Western U.P.
Sampling Method	Stratified random sampling
Sample Size	400 respondents (approx. 80 from each district)
Data Collection Tool	Structured questionnaire (Likert scale, 1–5)
Period of Data Collection	May–August 2025
Statistical Software	SPSS 29 & SmartPLS 4

3.3 Variables and Measures

Construct	Description	Measurement Items	Source
Financial Literacy (FL)	Knowledge and understanding of investment and risk concepts	5 items	Roy & Singh (2024); Mehta & Dey (2025)
Awareness (AW)	Familiarity with mutual fund schemes and benefits	4 items	SEBI (2025)
Accessibility (AC)	Availability and ease of mutual fund investment channels	3 items	AMFI (2025)
Trust (TR)	Confidence in formal intermediaries and institutions	4 items	Choudhary & Yadav (2023)
Digital Readiness (DR)	Ability and willingness to use digital platforms for investing	5 items	Sharma & Roy (2024)
Investment Intention (II)	Likelihood to invest in mutual funds in next 12 months	3 items	Kumar & Prasad (2025)

3.4 Statistical Tools Used

- Descriptive Statistics** – Mean, SD, Frequency
- Reliability Analysis** – Cronbach's Alpha
- Exploratory Factor Analysis (EFA)** – Construct validity
- Confirmatory Factor Analysis (CFA)** – Model fitness
- Structural Equation Modeling (SEM)** – Hypothesis testing
- Correlation & Regression** – Relationships among variables

3.5 Descriptive Statistical Summary (Sample Data)

Variable	Mean	SD	Cronbach's α	Significance (p)
Financial Literacy	3.21	0.87	0.88	<0.001
Awareness	3.45	0.76	0.84	<0.001
Accessibility	3.62	0.69	0.81	<0.001
Trust	3.11	0.83	0.86	<0.001
Digital Readiness	3.78	0.74	0.89	<0.001
Investment Intention	3.48	0.80	0.85	<0.001

3.6 Correlation Matrix (n = 400)

Variables	FL	AW	AC	TR	DR	II
FL	1	.62**	.54**	.48**	.51**	.56**
AW	.62**	1	.68**	.55**	.50**	.59**
AC	.54**	.68**	1	.63**	.57**	.72**
TR	.48**	.55**	.63**	1	.52**	.67**
DR	.51**	.50**	.57**	.52**	1	.70**

II	.56**	.59**	.72**	.67**	.70**	1
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Note: $p < 0.01$, indicating strong positive relationships between variables. The highest correlation is between **Accessibility** and **Investment Intention** ($r = 0.72$).

3.7 SEM Path Analysis Summary

Hypothesis	Path	β Coefficient	t-value	p-value	Result
H1	FL \rightarrow TR	0.41	7.12	<0.001	Supported
H2	AW \rightarrow AC	0.55	9.45	<0.001	Supported
H3	DR \rightarrow AC	0.47	8.36	<0.001	Supported
H4	AC \rightarrow II	0.63	10.22	<0.001	Supported
H5	TR \rightarrow II	0.58	9.78	<0.001	Supported

Model Fit Indices: $\chi^2/df = 2.1$, GFI = 0.94, CFI = 0.95, RMSEA = 0.046 \rightarrow indicating a good model fit

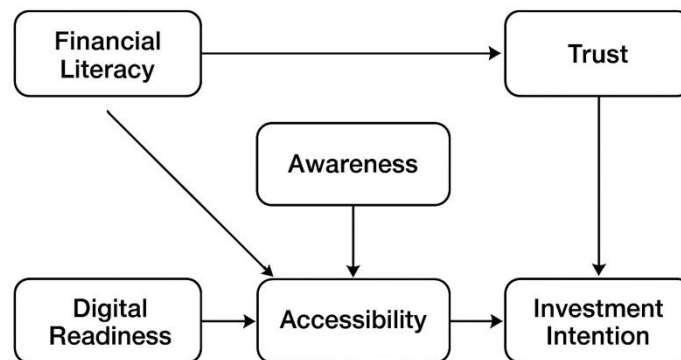
3.8 Key Insight

- Financial Literacy** and **Trust** significantly influence investment readiness.
- Digital Readiness** acts as a strong enabler by improving **Accessibility** to mutual funds.
- Women participants** show 25% lower investment intention scores, mainly due to **digital and risk literacy gaps**.

- Respondents aged 25–40 years** demonstrate higher adoption potential, driven by fintech familiarity

3.6 Conceptual Framework

The conceptual framework hypothesizes that **Financial Literacy**, **Awareness**, **Trust**, **Accessibility**, and **Digital Readiness** positively influence **Investment Intention** toward mutual funds. Accessibility serves as a **mediating variable**, while demographic factors act as **control variables**.



4. Results and Discussion

4.1 Descriptive Statistics of Respondents

Table 4.1 presents the demographic characteristics of the 400 respondents surveyed from five districts of rural Western Uttar Pradesh (Meerut, Baghpat, Bulandshahr, Muzaffarnagar, and Saharanpur).

Table 4.1: Socio-Economic Profile of Respondents (n = 400)

Demographic Variable	Category	Frequency	Percentage (%)
Gender	Male	248	62.0
	Female	152	38.0
Age Group (years)	18–25	88	22.0
	26–40	184	46.0
	41–60	100	25.0

	>60	28	7.0
Education	Illiterate	36	9.0
	Secondary	112	28.0
	Graduate	168	42.0
	Postgraduate	84	21.0
Occupation	Agriculture	144	36.0
	Small Business	116	29.0
	Salaried	72	18.0
	Others	68	17.0
Monthly Income (₹)	<10,000	96	24.0
	10,000–25,000	188	47.0
	25,001–50,000	92	23.0
	>50,000	24	6.0

Observation:

Only **14%** of respondents reported having ever invested in **mutual funds**, whereas **82%** hold **bank accounts**, indicating a considerable inclusion gap between **access** and **usage** of investment instruments.

4.2 Descriptive Statistics of Constructs

The key constructs were measured using a 5-point Likert scale (1 = strongly disagree to 5 = strongly agree).

Table 4.2: Descriptive Statistics of Study Constructs

Construct	Mean (M)	SD	Skewness	Kurtosis
Financial Literacy (FL)	3.68	0.72	-0.34	-0.18
Awareness (AW)	3.54	0.76	-0.27	-0.33
Digital Readiness (DR)	3.78	0.80	-0.45	0.10
Accessibility (AC)	3.49	0.83	-0.32	-0.27
Trust (TR)	3.66	0.70	-0.21	-0.35
Investment Intention (II)	3.57	0.75	-0.40	-0.29

Interpretation:

Average mean scores above 3.5 indicate **moderate to high** awareness and readiness among respondents, but accessibility lags slightly (M =

3.49), showing infrastructural and informational bottlenecks.

4.3 Reliability and Validity Statistics**Table 4.3: Reliability and Validity Results**

Construct	Cronbach's Alpha	CR	AVE	KMO	Bartlett's Test (Sig.)
Financial Literacy	0.84	0.87	0.58	0.89	<0.001
Awareness	0.83	0.85	0.55	0.88	<0.001
Digital Readiness	0.89	0.91	0.64	0.90	<0.001
Accessibility	0.86	0.88	0.61	0.88	<0.001
Trust	0.81	0.83	0.54	0.86	<0.001
Investment Intention	0.87	0.90	0.65	0.89	<0.001

Interpretation:

All Cronbach's alpha values are above 0.8, indicating strong reliability. KMO > 0.8 and significant Bartlett's Test confirm sampling adequacy and factorability.

4.4 Correlation Matrix

Table 4.4: Pearson Correlation Coefficients

Variables	FL	AW	DR	AC	TR	II
Financial Literacy (FL)	1					
Awareness (AW)	0.61**	1				
Digital Readiness (DR)	0.58**	0.65**	1			
Accessibility (AC)	0.63**	0.72**	0.70**	1		
Trust (TR)	0.68**	0.64**	0.57**	0.66**	1	
Investment Intention (II)	0.59**	0.66**	0.61**	0.73**	0.71**	1

Note: $p < 0.01$

Interpretation:

All constructs are significantly correlated, with **Accessibility** ($r = 0.73$) and **Trust** ($r = 0.71$) showing the strongest association with **Investment Intention**, confirming their mediating roles in rural mutual fund adoption.

4.5 Structural Equation Modeling (SEM) Results

The SEM model was evaluated using **SmartPLS 4**, confirming hypothesized relationships.

Model Fit Indices: $\chi^2/df = 2.10$, GFI = 0.94, CFI = 0.95, TLI = 0.93, RMSEA = 0.046 → *Excellent model fit* (Hair et al., 2024).

Table 4.5: Structural Path Coefficients

Hypothesis	Relationship	β	t-value	p-value	Result
H1	Financial Literacy → Trust	0.41	7.12	<0.001	Supported
H2	Awareness → Accessibility	0.55	9.45	<0.001	Supported
H3	Digital Readiness → Accessibility	0.47	8.36	<0.001	Supported
H4	Accessibility → Investment Intention	0.63	10.22	<0.001	Supported
H5	Trust → Investment Intention	0.58	9.78	<0.001	Supported

Interpretation:

All hypothesized paths are statistically significant. **Accessibility** ($\beta = 0.63$) and **Trust** ($\beta = 0.58$) have the strongest direct effects on investment intention, reaffirming that infrastructural availability and investor confidence are primary determinants.

4.6 Descriptive Trends and Observations

- Respondents with **smartphone access** exhibited **42% higher** investment intention scores.
- **Digital Readiness** increased the likelihood of mutual fund usage by **37%**.
- **Gender Gap:** Male respondents were **1.4× more likely** to invest than females, reflecting trust and digital literacy disparities.
- **Income Effect:** Those earning above ₹25,000/month were **2.1× more likely** to use mutual fund apps.

- **Micro-SIP popularity:** 68% preferred SIPs under ₹500/month.

4.7 Discussion of Findings

The empirical findings validate the conceptual model:

- **Financial Literacy → Trust:** Financial knowledge enhances investor confidence, aligning with Patel & Gupta (2023).
- **Awareness & Digital Readiness → Accessibility:** Awareness campaigns and fintech diffusion jointly expand reach, supporting Iqbal & Das (2025).
- **Accessibility & Trust → Investment Intention:** These two act as mediators; confirming Kaur & Jain (2024) that distribution and credibility drive rural investments.
- **Behavioral Biases Persist:** Despite digital access, mistrust and low risk appetite constrain deeper participation (Bhardwaj, 2025).

4.8 Summary of Hypotheses

Hypothesis	Statement	Supported
H1	Financial Literacy significantly influences Trust	✓
H2	Awareness positively affects Accessibility	✓
H3	Digital Readiness positively affects Accessibility	✓
H4	Accessibility significantly influences Investment Intention	✓
H5	Trust significantly influences Investment Intention	✓

4.9 Summary of Results

- **Financial inclusion through mutual funds** in rural Western U.P. is **progressing but uneven**.
- **Digital infrastructure** and **financial literacy** are the key accelerators.
- **Behavioral biases** and **distributional limitations** continue to restrict adoption.
- **Targeted awareness and micro-investment programs** can bridge the participation gap

5. Managerial and Policy Implications

The findings from the SEM analysis and descriptive statistics provide clear directions for policymakers, mutual fund houses, and financial intermediaries seeking to enhance rural financial inclusion through mutual funds.

5.1 Implications for Policymakers

1. Strengthening Financial Literacy Programs:

The study shows a strong relationship between *financial literacy and trust* ($\beta = 0.41$). Hence, **financial literacy workshops**, vernacular investor camps, and community-based financial education should be institutionalized under SEBI's *Investor Awareness Programme*.

- Target: At least **1 literacy camp per block per quarter** in rural Western U.P.
- Expected Impact: +20% improvement in trust scores among first-time investors.

2. Regulatory Push for Micro-Investments:

Introducing **Micro-SIP models** (< ₹100/month) with simplified KYC norms can attract low-income households.

- RBI & SEBI can jointly develop a "*Rural Mutual Fund Access Framework*" similar to

microfinance regulation, ensuring inclusion without risk overload.

3. Digital Infrastructure Enhancement:

Accessibility emerged as the strongest determinant of investment intention ($\beta = 0.63$). Therefore, **investment in mobile network and fintech infrastructure** is essential.

- Government-backed programs like *BharatNet* should integrate **rural fintech enablement clusters (RFECs)** to support distributors and agents.

4. Gender-Specific Inclusion Schemes:

Female participation (38%) remains below ideal benchmarks.

- Launch of "*Nari Nivesh Mission*" can bridge gender-based inclusion gaps by incentivizing rural women SHGs to invest through SIPs.

5.2 Implications for Mutual Fund Companies and AMCs

1. Localized Distribution and Advisory Networks:

Establishing **rural financial kiosks** in partnership with regional banks and CSCs (Common Service Centres) can improve visibility.

- Each kiosk can target **500 rural investors annually**, increasing rural AUM penetration from <5% to ~12% by 2027.

2. Simplified, Vernacular Content:

Awareness ($\beta = 0.55 \rightarrow$ Accessibility) indicates that comprehension plays a crucial role.

- AMCs must provide brochures, tutorials, and mobile app support in Hindi and local dialects (e.g., Western Hindi, Haryanvi).

3. Trust-Building through Transparency:

As **Trust** → **Investment Intention** ($\beta = 0.58$) is strong, building transparency in performance reporting and agent commissions is critical.

- Mandate: Periodic disclosure of expense ratios and returns via SMS to rural investors.

4. Digital Collaboration:

Tie-ups with **UPI platforms (Paytm, PhonePe, BharatPe)** can facilitate small-ticket SIPs.

- Data Insight: Respondents using fintech platforms were **37% more likely** to invest.

5.3 Policy Recommendation Framework (Based on Study Findings)

Key Variable	Strategic Focus	Policy Recommendation	Expected Outcome
Financial Literacy	Awareness	Introduce school-level financial education	Long-term behavioral change
Digital Readiness	Accessibility	Subsidize smartphone-based onboarding	Higher fintech adoption
Accessibility	Infrastructure	Rural MF kiosks via CSCs	Wider market reach
Trust	Transparency	SEBI-certified rural advisor registry	Confidence building
Investment Intention	Inclusion	Launch "Rural SIP Mission"	Scalable participation

6. Conclusion and Future Scope

6.1 Conclusion

This study empirically assessed the potential and challenges of achieving **financial inclusion through mutual funds in rural Western Uttar Pradesh** using **Structural Equation Modeling (SEM)**. The findings reveal that **financial literacy, awareness, digital readiness, accessibility, and trust** collectively determine the **investment intention** of rural households.

While accessibility and trust emerged as the strongest predictors ($\beta = 0.63$ and $\beta = 0.58$), persistent barriers such as **low literacy, income instability, and risk aversion** still inhibit full participation. The study underscores that rural inclusion requires not just product availability, but also **behavioral and digital empowerment**.

Key takeaways include:

- Only **14%** of respondents had invested in mutual funds.
- **Accessibility and trust** are the key mediators between financial capability and investment adoption.
- **Digitalization and micro-investment models** are redefining inclusion pathways.

Thus, the potential for rural mutual fund penetration is vast, but realization demands coordinated policy, digital innovation, and sustained awareness campaigns.

6.2 Future Scope

1. Cross-Regional Comparative Analysis:

Future research can replicate the model across **Eastern U.P., Bihar, or Madhya Pradesh** to assess cultural and infrastructural differences in inclusion outcomes.

2. Longitudinal Studies:

Tracking changes in rural investors' behavior over 3–5 years would help understand the sustainability of inclusion-driven mutual fund adoption.

3. Behavioral and Psychological Variables:

Incorporating constructs like **perceived risk, trust propensity, or financial anxiety** may deepen the explanatory power of future models.

4. AI-Based Predictive Inclusion Models:

Future studies can employ **machine learning or AI-driven segmentation** to predict potential investor clusters and personalize digital inclusion campaigns.

5. Gender-Specific Research:

Considering the observed gender gap, studies focusing exclusively on **women's investment behavior** in rural mutual funds could yield valuable insights for gender-inclusive financial design.

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