

Exploring the Influence of Fintech on Mutual Fund Investments: A Systematic Review

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Abstract

Objectives: This study examines the influence of fintech innovations on investors' decision-making and behavior in mutual fund investments.

Methodology: The study reviews studies published between 2008 and 2024 across databases such as Scopus, Web of Science, and Google Scholar using a systematic literature review (SLR) approach.

Findings: Fintech solutions have been shown to significantly enhance investor convenience, accessibility, and engagement by lowering barriers to entry and facilitating real-time financial insights. Blockchain technology promotes trust and transaction security, while robo-advisors and artificial intelligence (AI)-based analytics offer tailored portfolio recommendations. However, even in digital environments with abundant data, behavioral biases such as herding and overconfidence still influence decision-making.

Implications: According to the research, adopting fintech into mutual fund ecosystems can boost investor confidence, encourage transparent investing practices, and improve financial inclusion. To promote sustainable fintech adoption, policymakers, and financial institutions aim to develop regulatory frameworks that ensure investor awareness, ethical AI use, and data protection.

Keywords

Fintech, Mutual Funds, Robo-Advisors, Blockchain, Big Data Analytics, Investor Behavior

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Introduction

Fintech developments have brought out a new era of communication between investors and financial markets, significantly changing the economic landscape in India. From the words “financial” and “technology,” the term “fintech” refers to a range of digital tools and apps for financial services that facilitate easier, more convenient, and more decision-friendly transactions.

Fintech advances largely determine behavior, which in turn influences market dynamics. The innovation makes investments more accessible and transparent by removing obstacles, including information asymmetry, procedural complexity, and a lack of financial literacy. Furthermore, to develop individualized financial solutions, fintech platforms examine investor preferences and risk tolerance using artificial intelligence (AI) and big data analytics.

The digital revolution, driven by the convergence of financial services and rapidly advancing technologies, has had a big impact on how investors participate in mutual funds globally. Fintech technologies have changed investor behavior, increased accessibility, and improved efficiency, revolutionizing traditional investing procedures. The mutual fund sector in India exemplifies this shift, with assets under management (AUM) increasing from ₹27.05 trillion in 2019 to ₹68.08 trillion in 2024, primarily driven by systematic investment plans (SIPs) and digital adoption.

The study examines how fintech significantly shapes investor behavior in mutual funds. It investigates how technological advancements affect financial involvement, trust, and investment choices.

In the current financial landscape, it is essential to examine how fintech affects mutual fund investments as it reflects the ongoing shift in how investors access, assess, and manage financial assets in an increasingly digital market. By improving transparency, simplicity, and personalization, fintech innovations like robo-advisors, blockchain, AI-driven analytics, and mobile trading platforms have completely changed the way mutual funds are distributed. Fintech acts as a catalyst for financial inclusion, investor education, and operational efficiency in India, where mutual fund AUMs keep growing rapidly.

There are notable gaps in the current research on how fintech affects mutual fund investing. Most studies focus on financial technologies broadly rather than the specific dynamics related to mutual funds, and little research examines how investor behavior shifts with fintech adoption. Additionally, limited work has been done on how fintech interacts with traditional mutual fund distributors or influences different investor segments. These gaps emphasize the need for more comprehensive, long-term, and focused studies to understand how fintech is changing mutual fund investment methods.

Literature Review

Fintech has shifted investor preferences to direct plan investments, eschewing middlemen in favor of more efficiency and transparency. Investors make frequent,

well-informed decisions by utilizing goal-based recommendation tools, SIPs, and real-time data. Although behavioral biases still exist, trust and literacy are strengthened by digital transparency and personalized data.

Mutual Funds and Digital Platforms

Millennials and Gen Z are increasingly using digital platforms for investing in mutual funds. Kaur & Kaushik (2016) and Kaur (2018) revealed that while risk perception is less important, awareness has a significant impact on decisions. Dewi and Rahadi (2020) found that Indonesian millennials are influenced by design quality and trust. For Gen Z investors in India, Jha and Dangwal (2024) highlighted perceived risk, pricing value, and service trust as factors. Similar findings on platform usability and adoption behavior are also reported by Xie et al. (2021).

Behavioral and Technological Determinants

When it comes to fintech adoption, behavioral biases continue to play a significant role. Almansour et al. (2023) demonstrated how disposition effects, blue-chip bias, and herding influence investor attitudes and risk-taking. Bihari et al. (2023) identified regret aversion and overconfidence as two significant biases that were exacerbated by the handy features of fintech. Haritha and Uchil (2019) provided evidence that peer and media influences predominate in decision-making, which is consistent with behavioral finance theory (Badola et al., 2023). A systematic synthesis of behavioral biases affecting investment decisions further supports these findings (Badola et al., 2023).

Blockchain and Cryptocurrencies

Blockchain's immutability, transparency, and decentralization have sparked interest in its implementation, particularly for safeguarding and resolving issues in mutual fund operations. Albayati et al. (2020) highlight the importance of supportive policy frameworks for investor acceptability, emphasizing trust and regulatory clarity. Arias-Oliva et al. (2019) integrate technology acceptance model (TAM) with financial literacy and perceived risk, highlighting performance expectancy as a greater driver. Mazambani and Mutambara (2020) showed, using theory of planned behavior (TPB) in South Africa, that attitudes and perceived behavioral control have a more significant influence on bitcoin acceptance than subjective norms.

Robo-advisors

Robo-advisors provide affordable, algorithmic investment techniques, democratizing portfolio management (Belanche et al., 2019). Although robo-advisors improve access, they might not be able to eliminate abnormal behaviors as biases

such as overconfidence and loss aversion still exist in automated systems (Bhatia et al., 2022). Yeh et al. (2023) showed that facilitating conditions and performance expectations directly influence the behavioral intention.

Big Data and AI

Not only does big data analytics improve portfolio optimization and forecast accuracy, but it also requires ethical frameworks, expertise, and organizational readiness (He et al., 2023; Lee & Lee, 2015). Although its use raises concerns about responsibility, privacy, and governance, AI is transforming risk management, investor profiling, and regulatory compliance in the mutual fund industry.

Industry Trends and Growth

An overview of prior studies examining FinTech adoption, behavioral factors, and mutual fund investments is presented in Table 1. Empirical data support the global growth in mutual funds made possible by fintech. According to the International

Table 1. Overview of Studies.

Theme	Representative Studies	Key Findings/Determinants
Mutual funds and digital platforms	Kaur and Kaushik (2016), Dewi and Rahadi (2020), Jha and Dangwal (2024), Nicolescu and Tudorache (2020), Xie et al. (2021)	Awareness, trust, knowledge, demographic factors, and platform design quality strongly influence adoption; risk perception effects vary across studies.
Blockchain and cryptocurrencies	Albayati et al. (2020), Arias-Oliva et al. (2019), Chang et al. (2020), Du et al. (2019), Mazambani and Mutambara (2020)	Trust, regulatory support, perceived usefulness, and ease of use primarily drive adoption; subjective norms are less impactful; a favorable policy environment is crucial.
Robo-advisors	Belanche et al. (2019), Bhatia et al. (2022), Yeh et al. (2023)	Attitudes, mass media, facilitating conditions, and performance expectancy influence adoption; robo-advisory is less capable of mitigating behavioral biases.
Behavioral finance factors	Haritha and Uchil (2019), Almansour et al. (2023), Bihari et al. (2023)	Herding, regret aversion, overconfidence, and loss aversion significantly affect investor attitudes and risk perceptions; social and media interactions amplify biases.
Big data and AI	He et al. (2023), Werth et al. (2023)	Big data enhances strategic planning and operational efficiency; success depends on technical readiness and non-technical factors such as skills, trust, and regulation.

Investment Funds Association (n.d.), with consistent inflows, regulated open-end funds are predicted to reach \$69.17 trillion by the first quarter of 2024. In FY24, SIP investments in India totaled about ₹2 lakh crore, demonstrating the growing integration of digital platforms. New trends indicate that digital onboarding, cybersecurity improvement, and mobile access are boosting investor participation and trust.

Research Methodology

The Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines were followed in this study's systematic literature review (SLR) to ensure methodological rigor, transparency, and replicability.

Search Strategy

The three main databases, Scopus, Web of Science, and Google Scholar, were thoroughly researched. Industry reports from AMFI, IIFA, and EY fintech reports were additional sources.

The following keywords were combined in search strings: "FinTech," "mutual funds," "robo-advisors," "blockchain," "investor behavior," "AI in finance," "digital platforms," "technology adoption," and "investment decisions."

Works published between 2008 and 2024 were considered in the review.

Inclusion Criteria

Included studies were those that:

1. Looked at fintech tools for mutual funds and investing.
2. Highlighted digital platforms, technological adoption, and investment behavior.
3. Industry reports, conference papers, or peer-reviewed journal publications.
4. Published in the English language.

Exclusion Criteria

Excluded studies were those that:

1. Duplicates found in different databases.
2. Reports and articles not published in a peer-reviewed journal.
3. Publications that are not in English.

PRISMA Flow Summary

The study selection and screening process followed under PRISMA guidelines is illustrated in Figure 1.

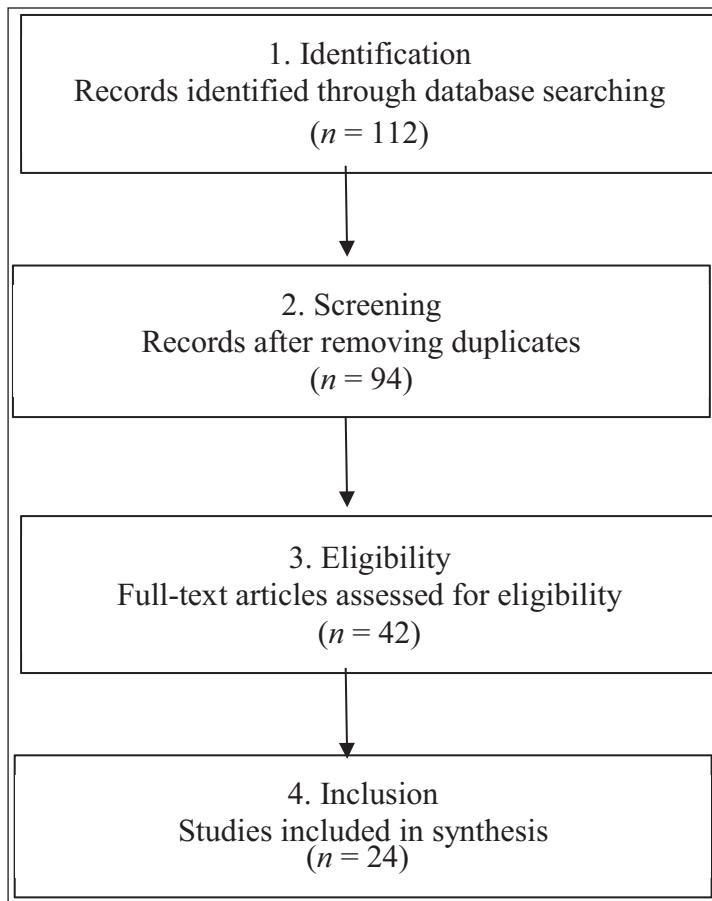


Figure 1. A PRISMA Flow Diagram.

- A total of 112 records were found using database searches (Scopus, Web of Science, and Google Scholar).
- 18 duplicates were removed, leaving 94 records for title and abstract screening.
- 52 records were excluded because they were outside the scope of fintech and mutual fund investments.
- 42 articles' full texts were evaluated for eligibility; 18 of these were eliminated because they did not fit the inclusion criteria (e.g., not mutual fund-focused, conceptual papers, or non-peer-reviewed).
- In the end, 24 studies were included in the systematic review.

Research Gap

The link between fintech adoption and mutual fund investor behavior is largely overlooked, especially in India. While many studies examine fintech and investing as a whole, there is limited insight into how technologies like blockchain, AI,

and robo-advisors affect behavioral biases and decision-making in mutual fund investments.

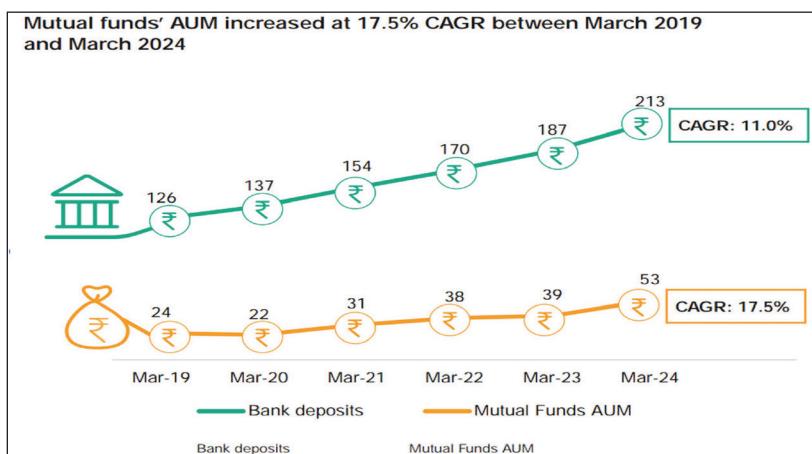
Objective

To examine how technology-driven platforms and fintech tools improve accessibility, streamline investing procedures, and affect investor behavior in mutual fund investments.

Mutual Fund Industry Growth: Empirical Trends

Growth in Mutual Fund AUM Surpassed Bank Deposits in the Last Five Years

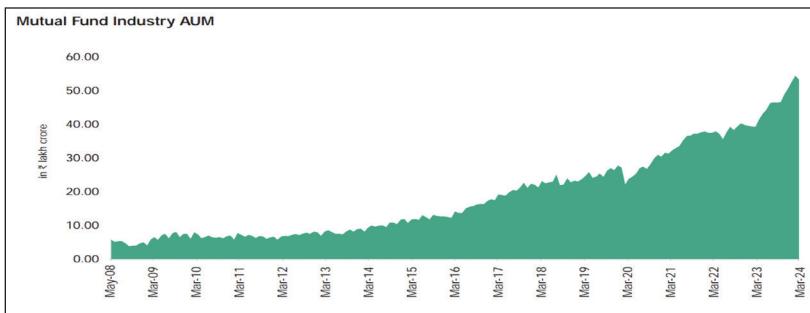
Indian mutual fund AUM grew at a compound annual growth rate (CAGR) of 17.5%, from ₹23.80 lakh crore in March 2019 to ₹53.40 lakh crore in March 2024. In the meantime, bank deposits grew at a CAGR of 11.0%, from ₹126.39 lakh crore in March 2019 to ₹212.53 lakh crore in March 2024. Investor preferences have shifted because low interest rates on fixed deposits have encouraged them to consider higher-return options such as mutual funds.



Source: Indian mutual fund industry; Association of Mutual Funds in India (AMFI, n.d.) website (www.amfiindia.com).

MF Industry's Assets Jump

The mutual fund industry has experienced remarkable growth, with AUM rising ninefold over the past 15 years, from ₹5.89 lakh crore in May 2008 to ₹53.40 lakh crore in March 2024. This significant growth reflects a shift in investor behavior and the increasing adoption of SIPs and digital platforms, underscoring the impact of fintech innovations on the mutual fund landscape. Some of the factors driving



Source: Indian mutual fund industry; AMFI(n.d.) website (www.amfiindia.com).

Table 2. Conceptual Framework That Maps Fintech Dimensions to Investor Behavior Variables Such as Trust, Risk Tolerance, and Behavioral Bias.

Fintech Dimension	Investor Behavior Variable	Conceptual Linkage
Robo-advisors	Trust	Provide algorithmic, transparent advice to build trust and reduce information disparity.
	Risk tolerance	Enable goal-based, customizable portfolios that adjust risk based on investor preferences.
	Behavioral bias	Reduce biases but can be influenced by overconfidence and algorithmic dependency.
Blockchain	Trust	Enhance transaction security, immutability, and transparency to increase investor trust.
	Risk perception	Lower fraud risk perception due to decentralized verification
	Behavioral bias	Reduce biases associated with mistrust, but have little impact on cognitive decision biases.
Big data and AI	Trust	Improve investor profiling to promote individualized interaction and trust.
	Risk tolerance	Improve predictive analytics to facilitate dynamic risk adjustment.
	Behavioral bias	Potentially mitigate bias by giving data-driven insights, but may lead to a dependence on data.
Digital platforms and mobile apps	Trust	Increase access and usability to drive greater participation and trust.
	Investment frequency	Easy access makes regular transactions and spontaneous investments more convenient.
	Behavioral bias	Gamification could amplify biases such as impulsive decision-making.

Note: This theoretical framework shows how different fintech innovations affect various aspects of investors' behavior, including risk tolerance, trust, and behavioral bias, and how they could assist or hinder mutual fund investment decisions.

Table 3. Linking the Discussion with Behavioral Finance or Technology Adoption Theories.

Theory	Key Constructs	Insights from Review	Supporting Studies
Technology acceptance model (TAM)	Perceived usefulness (PU), perceived ease of use (PEOU)	PU and PEOU significantly influence fintech adoption in digital mutual fund platforms.	Davis (1987) and other recent fintech adoption studies
Theory of planned behavior (TPB)	Attitude, subjective norms, perceived behavioral control (PBC)	Fintech use is more strongly predicted by attitude and PBC than by subjective standards.	Mazambani and Mutambara (2020)
Unified theory of acceptance and use of technology (UTAUT)	Performance expectancy, effort expectancy, social influence, facilitating conditions	The adoption of robo-advisors and mobile trading apps is strongly predicted by performance expectancy and supporting conditions.	Yeh et al. (2023)

Table 4. Influence of Fintech on Mutual Fund Investments.

FinTech Innovation	Impact on Investment Process	Investor Behavioral Effects
Robo-Advisors	Automated portfolio management, algorithmic advice	Increased accessibility, personalized advice, persistence of behavioral biases
Blockchain	Enhanced transparency, security, and transaction efficiency	Increased trust, reduced fraud perception
Big Data and AI Analytics	Data-driven asset allocation and risk profiling	More informed decisions, better risk management
Digital Platforms and Mobile Apps	Seamless onboarding, 24/7 access	Increased participation, growth of SIP adoption
Digital Payment Systems	Faster, cost-efficient transaction execution	Greater convenience and transaction frequency

expansion include increased retail involvement, greater digital use, financial knowledge, disposable incomes, and legislative reforms that encourage competition.

Discussion

The findings show that fintech significantly changes investor involvement, lowers barriers to entry, and improves transparency in mutual fund investing (Table 4). Despite advances in technology, long-standing psychological biases still influence investment behavior. The dualism implies that while technology enhances human judgment and psychological processes, it does not replace them. For fintech integration to be sustainable, inclusive technical design, policy evolution, and strategic investor education are essential.

Research such as that by Belanche et al. (2019) and Bhatia et al. (2022) demonstrates that while robo-advisors improve accessibility, biases such as loss aversion and overconfidence remain. Similarly, Albayati et al. (2020) and Mazambani and Mutambara (2020) show that blockchain adoption is more significantly influenced by regulatory clarity and trust than by technological expertise.

Comparing research shows that:

- Digital platforms increase convenience and financial literacy (Dewi & Rahadi, 2020; Jha & Dangwal, 2024).
- Behavioral biases persist in all situations (Almansour et al., 2023; Haritha and Uchil, 2019).
- Although AI and big data increase risk profiling accuracy, they also present legal issues (He et al., 2023).

Ethical and Regulatory Challenges

Despite the advantages of fintech, many issues still exist:

- Risks to cybersecurity and data privacy imposed by digital transactions
- An investor profile may be affected by algorithmic bias and unclear AI algorithms.
- Regulatory loopholes about blockchain platforms, robo-advisors, and international fintech companies
- Low knowledge of digital finance, particularly among the elderly and rural investors.

To ensure responsible and inclusive fintech adoption in mutual fund ecosystems, these challenges must be addressed.

The conceptual linkage between FinTech dimensions and investor behavior variables is summarized in Table 2. Theoretical foundations explaining technology adoption and investor behavior are summarized in Table 3.

Conclusion

FinTech innovations are changing the way people participate in mutual funds by increasing investor participation, accessibility, and convenience. Technologies include mobile trading apps, blockchain platforms, robo-advisors, and big data

analytics, enabling real-time data, customized recommendations, and faster transactions. However, investment behavior is still influenced by behavioral biases and regulatory constraints. To establish a transparent, safe, and inclusive investment framework, legislators, banks, and tech companies must work together. Future research should investigate how fintech impacts different investor types, ethical considerations, and the effectiveness of regulations. The influence of various FinTech innovations on the mutual fund investment process and investor behavior is presented in Table 4.

Limitations of the Study

1. It relies on secondary data and literature, which may not completely capture the changing nature of fintech advancements and investor behavior.
2. There is insufficient longitudinal and empirical data to determine the long-term effects of fintech on investor decision-making.
3. Behavioral finance theories may fail to explain new biases arising from fintech services.
4. Ethical and regulatory issues, such as data privacy and algorithmic bias, are understudied.

Future Implications

1. To fully understand the influence of fintech, use interdisciplinary techniques that integrate technology, policy, and behavioral finance.
2. To assess long-lasting behavioral changes, conduct empirical longitudinal research.
3. Investigate recently identified behavioral biases that are specifically linked to fintech tools.
4. Examine how various investor categories react to fintech advances in different ways.

Declaration of Conflicting Interests

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