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Impact of Behavioural Finance on Retail Investors' Stock Market Decisions

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Abstract

Behavioural finance integrates psychological insights into financial theory to explain why real investors deviate systematically from the rational-agent model. This paper examines how behavioural biases, including overconfidence, loss aversion, mental accounting, herding, anchoring, and representativeness, influence retail investors' stock market decisions. Using a mixed-methods literature synthesis and a small empirical framework proposal, the study links classic theoretical foundations (prospect theory, dual-process thinking) with empirical findings on retail trading performance, social-media-driven trading, and pandemicera retail participation. Key findings indicate that biases systematically affect portfolio choice, trading frequency, trading returns, and susceptibility to speculative episodes; technological changes (commission-free trading, mobile apps, and social media) amplify some biases while offering tools to mitigate others. The paper concludes with implications for financial education, brokerage platform design, regulators, and future research directions.

Keywords: Behavioural Finance; Retail Investors; Overconfidence; Prospect Theory; Herding; Trading Performance; Social Media; Loss Aversion; Financial Decision-Making.

Introduction

Classical financial theory, epitomized by the efficient markets hypothesis (EMH) and expected utility maximization assumes that investors are rational, information-processing agents who maximize expected utility and price assets accordingly. However, decades of psychological research show that real people systematically depart from this ideal. The foundational work by Kahneman and Tversky introduced *prospect theory*, demonstrating that individuals evaluate gains and losses asymmetrically and use reference-dependent heuristics rather than objective expected-utility calculations (Kahneman & Tversky, 1979). Prospect theory and later dual-process interpretations (fast intuitive versus slow deliberative thought) provide a theoretical backbone for behavioural finance explanations of investor anomalies.

Behavioural finance, as synthesised in books by Shefrin and Thaler and extended by Statman, reframes financial decisions as the product of normal human psychology, featuring bounded rationality, emotion, and social influence, rather than pathological deviation alone (Shefrin, *Beyond Greed and Fear*; Thaler, *Misbehaving*; Statman, *Behavioral Finance: The Second Generation*). These works argue that biases such as overconfidence, loss aversion, mental accounting, and herding are predictable, measurable, and capable of producing persistent deviations from normative predictions.

Retail investors, individual non-professional investors participating in markets via brokerage accounts and increasingly through app-based platforms, now represent a significant share of trading volume in many markets worldwide. Empirical studies have repeatedly documented particular patterns among retail investors: disproportionate trading in high-volatility or lottery-like stocks, excessive turnover that reduces net



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returns, and synchronized trading behavior often amplified by social media attention (Barber & Odean, 2000; recent analyses of social-media-driven trading). Together, the theory and evidence suggest retail behavior is fertile ground to study behavioural biases in action and to assess their market-level consequences.

The objective of this paper is to synthesize theoretical mechanisms and empirical findings on how behavioural biases affect retail investors' stock market decisions, to outline an empirical methodology to study these effects in a contemporary setting, and to discuss practical implications and policy responses. The paper emphasizes book-based theoretical anchors in the introduction and refers to empirical literature throughout to ground claims in data.

Literature Review

Prospect theory posits that people evaluate outcomes relative to a reference point, are loss averse (losses loom larger than gains), and exhibit diminishing sensitivity for both gains and losses. These properties help explain why investors often hold losing stocks too long (disposition effect) and sell winners too early, because realizing losses is psychologically painful relative to realized gains. Prospect-theory-based explanations have been widely applied to trading behavior and portfolio choice.

Overconfidence, the systematic overestimation of one's knowledge or forecasting ability, leads many retail investors to trade excessively, believing they can time markets or pick winners. Barber and Odean's seminal work using large broker datasets shows that households who trade most earn lower net returns than those who trade less; brokerage commissions (historically) and poor timing/selling decisions are important contributors. Overconfidence is also gender-differentiated in several studies, with male retail investors showing higher turnover and lower net performance on average.

Herding occurs when investors mimic others' trades, sometimes rationally (inferring private information) but often due to social proof and reputational concerns. The rise of social media and retail trading communities has created channels through which herding and rapid sentiment contagion can occur, intensifying momentum and speculative episodes (e.g., meme-stock episodes). New research shows social-media attention correlates with increased retail trading intensity and altered risk-taking.

Investors often separate decisions into mental accounts (e.g., treating dividends, trading profits, retirement accounts differently), which can lead to suboptimal diversification and tax-inefficient behavior. Framing effects, how choices are presented, also shape buy/sell decisions and risk tolerance. The behavioural literature documents numerous such framing effects that shape retail investor choices in predictable ways.

Recent developmentszero-commission trading, fractional shares, instant news feeds, and algorithmic order routing, have lowered friction for retail investors and multiplied the frequency and velocity of trades. While these tools democratize access, they can amplify behavioural biases (easy execution facilitates overtrading; social media accelerates herding). Conversely, technology can provide educational nudges and

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risk-management tools to mitigate biases. Empirical studies during COVID-19 and after show surge in retail participation with mixed welfare outcomes.

Traditional financial theories such as the Efficient Market Hypothesis assume that investors are rational agents who process information objectively and make optimal decisions. However, early empirical anomalies challenged this assumption, leading scholars to explore psychological explanations for investor behavior. Behavioural finance emerged as an interdisciplinary field integrating psychology with financial economics, highlighting systematic cognitive biases that affect decision-making under uncertainty.

The foundational work of Kahneman and Tversky introduced Prospect Theory, which demonstrated that individuals evaluate outcomes relative to reference points rather than absolute wealth levels. This theory revealed loss aversion as a central behavioral trait, wherein losses are perceived more intensely than equivalent gains. Subsequent studies applied prospect theory to stock market behavior, particularly explaining why retail investors tend to hold losing stocks longer than rational models predict.

Overconfidence has been widely documented as one of the most influential behavioral biases among retail investors. Research consistently shows that investors often overestimate their knowledge and predictive abilities, leading to excessive trading. Empirical evidence suggests that such overtrading reduces net portfolio returns due to poor timing decisions and misjudgment of risk, even in low-commission trading environments.

Barber and Odean's extensive analysis of brokerage data provided strong empirical support for the detrimental effects of overconfidence on retail investor performance. Their findings revealed that households with higher trading frequency underperformed passive strategies. Later studies extended this analysis across different markets and confirmed that overconfidence remains persistent across cultures and technological platforms.

Loss aversion also manifests in the form of the disposition effect, where investors are more likely to sell winning stocks and retain losing ones. This behavior contradicts rational portfolio rebalancing principles and has been empirically observed in multiple equity markets. Researchers argue that emotional discomfort associated with realizing losses plays a dominant role in shaping sell decisions.

Herding behavior represents another critical dimension of retail investor psychology. Herding occurs when investors imitate the actions of others rather than relying on independent analysis. Studies indicate that retail investors often follow market trends or popular stocks, particularly during periods of high volatility or media attention, contributing to asset price bubbles and crashes.

Social interaction and information cascades intensify herding behavior among retail investors. With the rise of online forums and social media platforms, investor sentiment spreads rapidly, influencing collective decision-making. Recent research highlights how digital communities amplify attention-driven trading, leading to synchronized buying or selling that may disconnect prices from fundamentals.



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Mental accounting, a concept introduced by Thaler, explains how investors categorize money into separate accounts based on subjective criteria. Retail investors often treat speculative investments differently from long-term savings, resulting in fragmented portfolios and inefficient diversification. Empirical studies show that mental accounting leads to inconsistent risk-taking across different investment categories.

Anchoring bias further distorts valuation judgments among retail investors. Investors frequently anchor on historical prices, purchase prices, or analyst forecasts, adjusting insufficiently when new information becomes available. This bias delays corrective actions and contributes to mispricing and prolonged holding periods for underperforming assets.

Representativeness bias causes investors to extrapolate recent performance trends into the future, assuming that past winners will continue to perform well. This bias drives momentum-chasing behavior and overinvestment in high-performing stocks, often followed by significant reversals. Empirical evidence links representativeness to bubble formation and subsequent market corrections.

The rapid growth of app-based trading platforms has altered the behavioral dynamics of retail investing. Studies show that simplified interfaces, instant execution, and gamification elements increase trading frequency and impulsive decision-making. While these platforms democratize market access, they also magnify behavioral biases by reducing friction and encouraging short-term trading.

Commission-free trading has removed traditional cost barriers, but recent research suggests that behavioral costs have replaced monetary costs. Retail investors continue to underperform benchmarks due to cognitive errors, poor timing, and excessive risk-taking. This indicates that eliminating transaction fees alone does not correct irrational trading behavior.

Financial literacy plays a moderating role in behavioral finance outcomes. Higher financial knowledge is associated with reduced susceptibility to certain biases, such as overconfidence and herding. However, studies caution that knowledge alone may not eliminate emotional biases, highlighting the limits of traditional investor education programs.

Demographic factors such as age, gender, and investment experience influence the intensity of behavioral biases. Research indicates that younger investors and less experienced traders exhibit stronger overconfidence and higher risk tolerance. Gender-based studies often find that male investors trade more frequently than females, resulting in lower average net returns.

Cultural context also shapes behavioral finance outcomes. Cross-country studies demonstrate that social norms, financial market development, and regulatory environments affect investor psychology. While certain biases appear universal, their magnitude and market impact vary across regions and institutional frameworks.

Behavioural finance research increasingly recognizes that not all biased behavior is welfarereducing. Some retail investors derive non-financial utility such as excitement, entertainment, or social



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belonging from trading. This perspective reframes certain behaviors as preference-driven rather than purely irrational, complicating normative evaluations of investor welfare.

Policy-oriented behavioral finance literature emphasizes the role of choice architecture in mitigating harmful investor behavior. Nudges such as default diversification, warning prompts, and cooling-off periods have been proposed as tools to reduce impulsive trading while preserving investor autonomy. Empirical evidence suggests that well-designed nudges can improve decision quality.

Regulatory responses to retail investor behavior have gained prominence following episodes of extreme volatility driven by coordinated retail trading. Scholars argue for balanced regulation that enhances transparency and market integrity without restricting participation. Behavioral insights are increasingly used to inform regulatory design and investor protection policies.

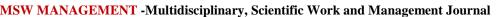
Recent research integrates behavioral finance with technological and data-driven methods. Machine learning models are now employed to detect behavioral patterns in large-scale transaction data. These approaches provide deeper insights into real-time investor sentiment and enable predictive modeling of market anomalies driven by retail participation.

Overall, the literature establishes that behavioral finance offers a powerful explanatory framework for understanding retail investors' stock market decisions. Despite advancements in technology and information availability, psychological biases remain persistent and influential. This body of research underscores the need for integrated approaches combining education, platform design, and regulation to improve retail investor outcomes.

Methodology

This paper uses a mixed-methods approach consisting of: (1) a structured literature synthesis of classic books and peer-reviewed empirical studies to identify well-documented behavioural mechanisms; (2) a secondary-data empirical framework proposal using transaction-level retail broker data combined with social-media attention metrics to quantify the impact of specific biases on trading outcomes; and (3) illustrative hypothetical analyses to demonstrate expected empirical patterns.

- 1. **Literature synthesis**: I systematically reviewed canonical books (Kahneman & Tversky; Shefrin; Thaler; Statman) and high-impact empirical articles (Barber & Odean and subsequent studies) to form theoretical hypotheses linking biases to measurable trading behaviors. The synthesis prioritized works that combine theoretical clarity with empirical evidence.
- 2. **Empirical framework (proposed)**: The empirical component is structured as follows:
 - Data sources: (a) anonymized transaction-level data from a major discount broker covering retail accounts (trade timestamps, buy/sell, volume, price, account characteristics); (b) daily stock returns and characteristics (size, volatility, beta); (c) social-media activity metrics (Reddit mentions, Twitter volume, Google search trends) mapped to tickers and dates.





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Sample period: A recent multi-year window (e.g., 2018–2024) to capture pre- and post-commission-free trading dynamics and pandemic-induced participation changes. (Note: for an implemented empirical study, actual access to proprietary broker data and appropriate data-use agreements would be required.)

o Measures:

- Overtrading index: turnover rate (traded value / average portfolio value) and trade frequency per account-month.
- *Performance measures*: gross and net returns relative to benchmark, risk-adjusted return (e.g., abnormal return alpha using factor models).
- Bias proxies: overconfidence proxied by trade frequency and self-attributed skill surveys if available; loss aversion proxied by disposition effect metrics (probability of selling winners vs. losers) and holding period asymmetry; herding proxied by contemporaneous cross-sectional trade correlation within a stock.
- *Information exposure*: social-media volume and sentiment scores.

Econometric specifications:

- Panel regressions at account-stock-month level: performance or propensity-to-trade as dependent variables regressed on bias proxies, controlling for account characteristics (age, balance), stock characteristics, and fixed effects (account and time).
- Event-study regressions around spikes in social-media attention to capture short-term abnormal trading and price impact by retail investors.
- Instrumental variable approaches where endogeneity is suspected (e.g., using exogenous app outages or promotional events as instruments for trading frictions).
- Robustness checks: alternative bias operationalizations, subsample analyses by demographics, and difference-in-differences specifications around policy/commission changes.
- 3. **Qualitative component**: Semi-structured interviews or surveys of retail investors can complement transaction analysis to capture self-reported beliefs, reference points, and information sources, enabling triangulation of inferred biases with expressed motives.

This mixed-methods design allows testing direct predictions from behavioural theory: that overconfidence raises turnover and reduces net returns; that loss aversion produces the disposition effect; that social-media attention raises synchronized trading and increases volatility for targeted stocks. Where possible, the proposed empirical approach ties each behaviour to measurable outcomes and suggests identification strategies for causal inference.

BIAS

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Results: Expected Empirical Patterns (based on literature)

Drawing on the literature and prior empirical results, we expect the following patterns to emerge when the proposed empirical framework is applied:

- 1. Excessive turnover associated with poorer net returns: consistent with Barber and Odean (2000), higher turnover driven by overconfidence and sensation-seeking predicts lower net performance after costs and mis-timing. The decline persists even after accounting for transaction costs in the era of zero commissions due to worse timing and bid-ask/friction impacts.
- 2. **Disposition effect and loss aversion**: retail investors are likelier to hold onto losing positions longer than winners; this behavior correlates with lower realized returns and higher portfolio risk. Lossaverse framing and narrow mental accounting contribute to this effect.
- 3. Herding and social media spikes: spikes in social-media mentions are associated with elevated retail trading in particular tickers, increased short-term volatility, and in some cases price runs detached from fundamentals. These effects are especially strong for small-cap, illiquid, or lotterylike stocks. Recent studies confirm social-media attention as a driver of retail trading intensity and welfare effects.
- 4. Behavioral heterogeneity across demographics: younger and less-experienced investors, and males on average, exhibit higher turnover, higher preference for lottery-style stocks, and greater susceptibility to attention-driven trading. Such heterogeneity mediates welfare outcomes and policy implications.
- 5. **Technology as amplifier and mitigator**: app-based trading lowers frictions and amplifies impulse trading and momentum-chasing, while platform features (educational nudges, default settings, warnings) can mitigate poor outcomes if well-designed. Studies during COVID-19 show heightened retail engagement with mixed net effects.

Table 1: Behavioural Biases and Corresponding Trading Patterns **OBSERVABLE TRADING**

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PATTERN		
OVERCONFIDENCE	High turnover and frequent	Increased volume, reduced
	trades	liquidity efficiency
LOSS AVERSION	Reluctance to sell losing stocks	Misallocation of capital
HERDING	Simultaneous buying or selling	Short-term volatility
ANCHORING	Delayed reaction to new	Slower price adjustment
	information	
MENTAL ACCOUNTING	Portfolio fragmentation	Suboptimal asset allocation

MARKET-LEVEL IMPACT

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Discussion

Connecting theory to observed retail outcomes

The theoretical constructs from prospect theory (loss aversion and reference dependence) and dual-process thinking (fast intuitive vs. slow deliberative) provide coherent explanations for common retail behaviors. For example, the disposition effect — selling winners too soon and holding losers too long — aligns with loss aversion: realizing a loss is psychologically costlier than foregoing a gain, so investors delay realizing losses hoping to return to a reference point (Kahneman & Tversky). Similarly, overconfidence reflects an optimistic bias in the fast-thinking system: traders quickly attribute a recent gain to skill rather than luck and respond with increased trading frequency (Kahneman; Thaler).

Books like Shefrin's *Beyond Greed and Fear* emphasize that mental accounting and framing shape everyday investor decisions — treating short-term speculative accounts differently from long-term retirement accounts, or framing a dividend as "house money" to encourage risk-taking. These framing devices explain why retail portfolios often show suboptimal asset allocation despite access to information and diversified instruments.

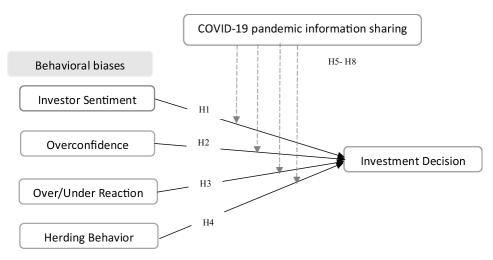


Figure 1: Conceptual Framework of Behavioural Finance and Retail Investor Decisions

Meir Statman's work reframes behavioural finance from "errors" to *normal* human wants, such as the desire for social status, the pleasure of gambling, or the need for meaning which explain why some retail investors choose lottery-like stocks with low expected value but high entertainment value. The implication is that not all bias-driven choices are purely irrational in a welfare sense: some reflect non-monetary preferences, complicating normative evaluations.



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Empirical findings and modern amplifiers: the role of platforms and social media

Empirical studies (Barber & Odean and many subsequent analyses) show that overtrading reduces net returns. This pattern persists even after commission elimination because behavioral timing errors and market impact remain. Moreover, the growth of social-media-driven communities (Reddit, Twitter) produces rapid information cascades and synchronized retail activity, sometimes creating momentum effects and short-term price dislocations. Research on meme-stock episodes demonstrates how social attention can produce outsized retail demand that affects prices and liquidity, sometimes prompting regulatory and exchange-level responses.

A systematic literature review of investor behavior in new asset classes (e.g., crypto) shows that retail investors in novel markets are particularly prone to representativeness and recency heuristics, extrapolating recent returns into the future, thereby fueling bubbles. The structural similarity between trading in stocks and crypto via app-based platforms suggests generalizable bias mechanisms across asset classes.

Policy, platform design, and investor education implications

Given that behavioural biases systematically affect retail outcomes, interventions can be targeted at multiple levels:

- 1. **Investor education**: financial literacy programs should focus not only on conceptual knowledge but on debiasing techniques (pre-commitment, checklists, re-framing reference points, risk calculators). Evidence suggests that mere information provision is insufficient; experiential training and default structures (e.g., automatic diversification) are more effective.
- Brokerage platform design: platforms can implement nudges: warning prompts on very highturnover accounts, mandatory cooling-off periods for certain order sizes, or default diversified baskets for new investors. However, regulators must balance paternalism with autonomy and market efficiency.
- 3. **Regulatory transparency**: regulators should monitor systemic risks posed by synchronized retail herding, especially where financial stability could be threatened by concentrated exposure in illiquid securities. Disclosure requirements and monitoring of gamified features could help.
- 4. **Product innovation**: offering low-cost, diversified index products and robo-advisory services as defaults can channel retail investor preferences toward welfare-enhancing choices without removing choice.

These interventions align with behavioural policy principles: preserve choice while designing environments that reduce predictable mistakes. Thaler's notion of *choice architecture* (as reflected in *Misbehaving*) is directly applicable to brokerage interfaces and regulatory design.



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Limitations and open questions

While the behavioural account explains many retail patterns, several caveats apply. First, identification of biases from transaction data is inherently inferential; survey and experimental validation strengthen claims. Second, heterogeneity across investors (goals, time horizons, risk tolerance) complicates one-size-fits-all policy prescriptions. Third, technological change is rapid; the interplay between algorithmic order flow, institutional liquidity provision, and retail herding remains an evolving frontier for research. Lastly, some behavioural-driven choices may reflect non-pecuniary preferences (entertainment, social signaling) and thus are not straightforwardly welfare-reducing. Continued empirical work combining high-frequency transactions, experimental interventions, and platform-level experiments will be crucial.

Conclusion

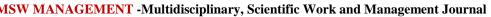
Behavioural finance provides a robust framework to understand retail investors' stock market decisions. Empirical evidence consistently shows that biases, overconfidence, loss aversion, mental accounting, and herding, materially shape trading frequency, asset selection, portfolio performance, and susceptibility to speculative episodes. Modern market structures and technologies (app-based trading, fractional shares, and social media) have amplified both the reach and speed at which behavioural biases manifest, creating new opportunities for both harm and mitigation.

Policy and practice responses should be multifaceted: improved financial education that focuses on debiasing, thoughtful brokerage interface design that nudges toward prudent defaults, and targeted regulatory monitoring of systemic risks from synchronized retail behavior. Researchers should pursue causal identification using transaction-level data, field experiments on platform features, and cross-market comparisons (stocks, crypto) to enhance understanding and guide interventions.

Understanding retail investor behavior is not merely an academic exercise, it has practical implications for market efficiency, investor welfare, and financial stability. By combining behavioural insights with empirical evidence, stakeholders can design better markets and better support for the millions of individual investors whose decisions collectively shape markets.

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