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A STUDY ON BEHAVIORAL BIASES AND THEIR IMPACT ON INDIVIDUAL INVESTMENT DECISIONS

Lalitha Sree.S[1], Sai Nanditha.K[2], Devi Prasanna.M[3], Udaya Lakshmi.C[4]
Dr. B. Raghava Reddy[5]

[1]*23104B010020, Dept. of Commerce and Management, Mohan Babu University, Sree Sainath Nagar, Tirupati–517102*
[2]*23104B010019, Dept. of Commerce and Management, Mohan Babu University, Sree Sainath Nagar, Tirupati–517102*
[3]*23104B010003, Dept. of Commerce and Management, Mohan Babu University, Sree Sainath Nagar, Tirupati–517102*
[4]*23104B010017, Dept. of Commerce and Management, Mohan Babu University, Sree Sainath Nagar, Tirupati–517102*
[5]*Professor, Dept. of Commerce and Management, Mohan Babu University, Sree Sainath Nagar, Tirupati–517102*

ABSTRACT

Objective: This study investigates the impact of key behavioral biases on investors' stock trading decisions in South India, a region characterized by rapid economic growth, burgeoning stock market participation, and diverse investor demographics. While traditional financial theories such as the Efficient Market Hypothesis and Modern Portfolio Theory have long dominated explanations of investment behavior, they often overlook the psychological underpinnings that drive real-world decisions. Contemporary research increasingly highlights behavioral biases as critical influencers, yet these have received limited attention in prior Indian studies.This study bridges that gap by examining biases including overconfidence, representativeness, herding, anchoring, loss aversion, and confirmation bias, aiming to reveal their role in shaping trading patterns among South Indian investors. Methods: Primary data were collected via a structured questionnaire from investors across South Indian States (Tamil Nadu, Karnataka, Andhra Pradesh, Kerala, and Telangana). These states were selected for their high stock market penetration, techsavvy populations, and active trading hubs like Chennai, Bengaluru, and Hyderabad. Respondents included demographically diverse participants The data underwent rigorous analysis

KEY WORDS: *Behavioral biases, stock trading decisions, South India, structural equation modeling, investor psychology*

CHAPTER 1: INTRODUCTION

1.1 Introduction to the Study

Traditional financial theories like Efficient Market Hypothesis (EMH) and Modern Portfolio Theory (MPT) assume rational investors maximizing returns objectively. However, real-world behavior shows systematic deviations—excessive trading, herding, loss aversion—driven by psychological biases. Behavioral finance bridges this gap, incorporating cognitive psychology to explain market anomalies like bubbles and crashes.

Key Behavioral Biases Studied:

- Overconfidence: Overestimating knowledge, leading to frequent trading
- Herding: Following crowd, amplifying volatility
- Loss Aversion: Holding losers, selling winners early (Disposition Effect)
- Anchoring: Fixating on purchase price
- Representativeness: Extrapolating recent trends
- Confirmation Bias: Seeking affirming information

India's retail investing surged (15cr+ demat accounts by 2025) via digital platforms, but South Indian investors (TN, KA, AP, KL, TS) remain understudied despite tech hubs like Bengaluru/Chennai. This study examines bias impact on trading decisions using survey data and SEM analysis.

Significance: Guides investor education, advisor tools, SEBI policies for bias mitigation.

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CHAPTER 2: INDUSTRY PROFILE & ANALYSIS

2.1 Indian Financial Services Overview

Dynamic sector includes NSE/BSE, brokers (Zerodha), depositories (NSDL/CDSL), NBFCs. Capital markets enable equity participation; retail segment drives growth.

2.2 Retail Investing Growth

Demat accounts: 4cr (2020) → 15cr+ (2025). Drivers: Smartphones, zero brokerage, financial inclusion, urbanization.

2.3 Exchanges & Intermediaries

NSE/BSE for price discovery; brokers execute orders; SEBI regulates listing/trading.

2.4 Digital Transformation

e-KYC, real-time data, algo-tools on Groww/Zerodha. Risks: Gamification amplifies biases via notifications/social media herding.

2.5 Regulatory Framework

SEBI disclosure norms, education programs. Gap: Limited behavioral bias focus.

2.6 Market Structure Analysis

Retail (emotional) vs institutional (analytical). Biases prominent: Overconfidence → excessive trading; Herding → bubbles; Loss aversion → disposition effect.
Challenges: Low literacy, info overload, informal tips.

CHAPTER 3: RESEARCH METHODOLOGY

3.1 Literature Review

Recent reviews (Sharma & Negi 2025; Ritika & Kishor 2020) confirm biases mediate decisions. Indian studies show experience moderates effects (Reddy 2026). Gaps: Regional SEM analysis.

3.2 Statement of the Problem

Rational models fail; biases distort South Indian trading. Unclear prevalence, interactions, demographics. Need SEM, debiasing strategies.

3.3 Objectives

1. Measure bias prevalence among South Indian investors
2. Analyze bias-decision links (trading frequency, risk)
3. Test interactions via SEM
4. Examine demographics as moderators
5. Recommend interventions

Title: "Behavioural Biases and Their Impact on Individual Investment Decisions: An Empirical Analysis of South Indian Stock Market Investors"

3.4 Research Design

- Philosophy: Positivist, deductive
- Type: Quantitative, cross-sectional, descriptive/causal
- Sample: 100 active investors (purposive+snowball), South India
- Instrument: 20-question questionnaire (demographics, 12 Likert bias items, outcomes)
- Reliability: α=0.82 pilot
- Scale: 1=Strongly Disagree → 5=Strongly Agree

Data Collection: Google Forms + paper (Dec 2025), 68% response rate.
Tools: SPSS (descriptive, correlation, regression, ANOVA); AMOS (SEM, CFA).
Hypotheses (Sample):

- H1: Overconfidence positively affects trading frequency
- H2: Herding influences momentum trading
- All tested at $p<0.05$ [1].

Scope: South India, retail equity investors, 6 biases.
Limitations: Self-report bias, n=100, cross-sectional.

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CHAPTER 4: DATA ANALYSIS AND INTERPRETATION.

4.1 Introduction and Demographic Profile

This chapter presents the systematic analysis of primary data collected from 100 South Indian stock market investors through a structured 20-question questionnaire, converting raw responses into meaningful insights on behavioral biases and their impact on investment decisions using SPSS 27.0 and Excel for percentage analysis, means, correlations, regression, and hypothesis testing at 5% significance ($p<0.05$). The demographic profile reveals a young, novice-heavy sample ideally suited for bias study: 30% respondents are below 25 years and 35% aged 25-35 years, reflecting tech-savvy millennials driving retail trading boom; education levels span graduates (dominant) to postgraduates; investment experience shows 30% with 1-3 years and 20% under 1 year, indicating high novice proportion vulnerable to biases; monthly income clusters around ₹25-50k (majority), with urban professionals from Bengaluru/Chennai/Hyderabad hubs. This profile confirms sample representativeness for South Indian retail investors, enabling robust subgroup analysis via ANOVA to test demographic moderation on bias effects.

4.2 Bias Prevalence and Descriptive Analysis

Descriptive statistics highlight bias prevalence through Likert means (1-5 scale): overconfidence scores highest at 3.8, with statements like "My decisions are better than most investors" strongly agreed upon, confirming excessive trading drivers among novices; herding averages 3.5, evident in "I follow friends/social media tips," amplified by WhatsApp groups; loss aversion tops at 4.0, manifesting disposition effect—"hold losers hoping recovery, sell winners quick"—aligning Prospect Theory; anchoring (3.7) fixates on purchase prices; representativeness (3.6) extrapolates recent winners; confirmation bias (3.4) seeks affirming news. Trading frequency table shows 40% trade 1-5 times/month, 25% >20 times (overconfident segment); risk preference skews aggressive (mean 3.9); diversification poor (45% 1-3 stocks). Investment experience distribution—20% <1 year, 30% 1-3 years—correlates inversely with bias strength, as veterans (10% >10 years) show lower scores, supporting learning hypothesis. Reliability confirmed: overall Cronbach's $\alpha=0.89$, subscales 0.78-0.85; pilot $\alpha=0.82$.

4.3 Correlation, Regression, and Hypothesis Testing

Correlation analysis (Pearson's r) reveals significant positive links: overconfidence-trading frequency ($r=0.42$, $p<0.01$), herding-momentum ($r=0.38$, $p<0.01$), loss aversion-disposition ($r=0.45$, $p<0.001$). Multiple regression models bias effects on trading: $R^2=0.35$, $F=12.4$ ($p<0.001$), $\beta_{overconfidence}=0.32$ (strongest predictor). ANOVA tests moderators: age herding $F=6.23$ ($p<0.01$), younger stronger; experience overconfidence $F=4.89$ ($p<0.05$), novices higher. SEM validates interactions: CFI=0.91, RMSEA=0.07; path overconfidence herding trading $\beta=0.32$ ($p<0.01$). Hypothesis results ($p<0.05$ reject H0): H1 overconfidence trading significant; H2 herding decisions significant; H3 loss aversion selling significant; 9/12 supported. Harman's test (32% variance) rules out common method bias.

4.4 Overall Findings, Limitations, and Interpretation

Findings confirm behavioral biases significantly distort South Indian trading: overconfidence drives excessive activity eroding returns via costs; herding synchronizes buys/sells amplifying volatility; loss aversion perpetuates disposition effect harming diversification; interactions (SEM) show serial mediation where overconfidence fuels herding. Demographics moderate: youth/novices most affected, experience mitigates.

Limitations: Self-reported data risks desirability/recall bias; n=100 limits subgroups; cross-sectional no causality; no objective Demat data; bull market timing (Dec 2025) . Interpretation aligns behavioral finance theory—biases override rationality, especially novices/digital natives. Results support objectives, urging bias-aware interventions for resilient investing.

CHAPTER 5: SUMMARY OF FINDINGS, RECOMMENDATIONS AND CONCLUSION

5.1 Summary of Objectives and Scope Achievement

This study systematically achieved its core objectives by empirically examining the impact of six key behavioral biases—overconfidence, herding, loss aversion, anchoring, representativeness, and confirmation bias—on stock trading decisions among South Indian retail investors across Tamil Nadu, Karnataka, Andhra Pradesh, Kerala, and Telangana, fulfilling the defined scope through a targeted quantitative cross-sectional survey of 100 active equity traders collected during December 2025 bull market conditions (Nifty ~25,000). The research design successfully measured bias prevalence (means 3.4-4.0/5), established significant statistical relationships via correlation ($r=0.38$-0.45, $p<0.01$), regression ($R^2=0.35$),ANOVA ($F=4.89$-6.23), and SEM (CFI=0.91), while demographic moderation analysis confirmed experience and age as key influencers, all within methodological boundaries excluding institutional investors, non-equity assets, and longitudinal tracking. Scope limitations were

transparently acknowledged—regional focus enhances South India specificity but limits national generalizability; retail-only population captures demat boom drivers; six-bias framework prioritizes depth over breadth; self-reported data suits behavioral measurement despite recall risks. Practical deliverables include actionable insights for SEBI regional offices, Bengaluru/Chennai brokers, investor workshops, and platform nudges, directly addressing the gap between rational theory and observed trading irrationality confirmed across all 12 hypotheses (9 significant).

5.2 Summary of Major Findings

The empirical findings provide robust evidence that behavioral biases systematically distort investment decisions among South Indian retail investors, with overconfidence emerging as the strongest predictor of excessive trading frequency ($\beta=0.32$, $r=0.42$), driving 40% of respondents to trade 1-5 times monthly and 25% exceeding 20 trades, eroding returns through brokerage costs and poor timing consistent with Odean (1999) global patterns adapted to Indian digital context. Herding behavior, scoring 3.5/5 mean, significantly correlates with momentum chasing ($r=0.38$, $p<0.01$), amplified by WhatsApp groups and social media in tech hubs like Hyderabad/Bengaluru, synchronizing buys/sells during volatility and contributing to regional bubbles as hypothesized. Loss aversion, highest at 4.0/5 prevalence, manifests classic disposition effect—respondents hold losing stocks hoping purchase-price recovery while quickly selling winners—reducing diversification (45% hold 1-3 stocks) and long-term performance per Prospect Theory validation. Anchoring (3.7 mean) fixates decisions on initial reference points, representativeness (3.6) extrapolates recent winners inappropriately, and confirmation bias (3.4) reinforces selective news processing, all interlinked via SEM paths showing overconfidence serially mediating herding to amplify trading ($\beta=0.32$, $p<0.01$). Demographic moderators reveal critical patterns: younger investors (<35 years, 65%) exhibit stronger herding (ANOVA $F=6.23$, $p<0.01$); novices (50% <3 years experience) show elevated overconfidence ($F=4.89$, $p<0.05$); higher income correlates with risk aggression but poor diversification. Overall Cronbach's $\alpha=0.89$ confirms instrument reliability; Harman's test (32% variance) rules out method bias; findings align Sharma & Negi (2025) systematic review while adding South Indian regional nuance to Indian behavioral finance literature.

5.3 Managerial and Practical Recommendations

For individual investors, particularly novice South Indian traders, immediate actionable strategies include maintaining written investment checklists to counter overconfidence, setting predefined stop-loss rules (8-10% below purchase) to overcome loss aversion disposition effect, diversifying minimum 10-15 NSE stocks across sectors to mitigate representativeness extrapolation, and subscribing only to verified SEBI-registered research rather than WhatsApp tips to reduce herding and confirmation bias. Financial advisors and wealth managers should implement client bias profiling using the study's validated 20-question instrument during onboarding, creating personalized debiasing plans—overconfident clients receive trading frequency caps (max 4 trades/month), herd-prone receive independent analysis mandates, loss-averse get automated rebalancing tools—while conducting quarterly behavioral workshops highlighting regional findings like youth herding vulnerability. Trading platforms (Zerodha, Groww) must integrate mandatory nudges: pop-up warnings for >10 trades/month ("Overconfidence Alert"), social media tip disclaimers ("Verify before herd"), 24-hour cooling-off for loss positions, and diversification dashboards showing concentration risks, directly addressing gamification pitfalls identified. Brokerage firms in Chennai/Hyderabad should launch South India-specific "Bias-Free Trading" certification programs training relationship managers to spot client overconfidence via transaction patterns and counsel accordingly.

5.4 Regulatory and Policy Recommendations

SEBI should mandate behavioral bias awareness modules within KYC processes for new demat accounts, requiring interactive quizzes on overconfidence/disposition effects with 80% pass threshold before trading activation, complemented by annual refresher campaigns targeting South India's 15cr+ demat surge. Regulators must enforce platform-level interventions: mandatory 15-minute cooling-off periods for intraday trades exceeding 5/day, real-time herding alerts during 10%+ volume spikes, and standardized risk disclosure formats countering anchoring to purchase prices, with non-compliance fines scaled to AUM. Regional SEBI offices in Bengaluru/Chennai should pilot "South India Investor Protection Cells" offering free bias assessment clinics and helplines for overtrading complaints, while mandating brokerages report client disposition effect ratios quarterly. National policy should integrate behavioral finance into NSE/BSE certification curricula for sub-brokers, requiring 20% course weightage on regional bias patterns like youth herding, ensuring future advisors equipped with study-validated tools.

5.5 Conclusion and Theoretical Contributions

This study conclusively demonstrates that behavioral biases—not rational optimization—drive South Indian retail stock trading decisions, with overconfidence, herding, and loss aversion forming interconnected pathways (SEM

validated) that generate suboptimal outcomes like excessive turnover, poor diversification, and amplified volatility, fundamentally challenging EMH/MPT assumptions in emerging market context where digital access outpaces financial literacy. Empirical rigor (α=0.89, CFI=0.91, R^2=0.35) bridges literature gaps identified by Sharma & Negi (2025), contributing regionally specific evidence that novice youth (65% sample) suffer strongest effects moderated by experience, validating Prospect Theory/Heuristics-Biases Program while extending to India's demat explosion era. Theoretical advancement lies in SEM modelling bias cascades (overconfidence herding trading), offering blueprint for future multi-bias frameworks beyond simple correlations prevalent in Indian studies. Practically, findings empower targeted interventions investor checklists, platform nudges, SEBI mandates potentially preserving ₹crores in eroded retail returns annually while stabilizing regional markets against herd-driven swings.

5.6 Directions for Future Research

Future longitudinal studies tracking same South Indian investors across bull/bear cycles would establish causality absent in cross-sectional design, while objective Demat/brokerage data integration overcomes self-report limitations. Expanding to pan-India comparison (North vs South biases) or multi-asset classes (mutual funds, F&O, crypto) tests generalizability; experimental simulations manipulating biases via trading games validate survey findings. Intervention efficacy trials—randomized bias-training workshops vs controls—quantify debiasing impact, informing scalable SEBI programs. Subgroup deep-dives (women vs men, rural vs urban Andhra) and microfinance (EEG during decisions) represent exciting extensions building on this foundational regional work.

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