

## Financial Behavior in Personal Investment: Influence of Psychological Factors on Investment Decision

Dr. Lakshmi V <sup>1</sup>, D. Charumathi <sup>2</sup>, M A Nayeem <sup>3</sup>, Dr. S. Vidya <sup>4</sup>, Prof. Renuka Sagar <sup>5</sup>, Dr Jagbir Singh Kadyan <sup>6</sup>

1. Assistant Professor and Head, Department of Commerce, Acharya Institute of Graduate Studies, Bengaluru, Karnataka, India. lakshmiv@acharya.ac.in
2. Assistant Professor, Department of MBA, MEASI Institute of Management, Chennai, Tamilnadu, India. charu1677@gmail.com
3. Assistant Professor, Finance and Analytics, Institute of Public Enterprise, Hyderabad, Telangana, India. nayeem@ipeindia.org
4. Assistant Professor, Department of Commerce, B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, Tamil Nadu, India. vidyadinesh2003@gmail.com
5. Director Cum Professor, Department of Business Management, RBVRR Women's College, Hyderabad, Telangana, India. sagar\_renuka@yahoo.com
6. Associate Director, Centre for Socio-economic & Sustainability Research, New Delhi. India. dr.jskadyan@gmail.com

### ABSTRACT

In the ever-evolving realm of financial markets, understanding the underlying psychological dynamics shaping investor behavior is paramount. Financial behavior refers to the choices and actions people make when managing their own cash across a range of investment vehicles, including stocks, bonds, mutual funds, and real estate. It includes components that are vital in determining the results of investments, including risk tolerance, investment objectives, decision biases, emotions, and financial literacy. Achieving long-term investment success and financial security requires an understanding of and ability to control one's own financial behavior. An extensive research model has been painstakingly built to clarify the complex connections between these psychological variables and the process of making investing decisions. This study examines the impact of three psychological aspects on investment decisions made by 220 investors who trade on the National Stock Exchange (NSE) and the Bombay Stock Exchange (BSE): information asymmetry, problem framing, and risk propensity. Effective investing strategies necessitate an awareness of the interplay between psychological biases and cognitive processes, as these aspects influence personal investment decisions. By using a quantitative research methodology, information was gathered by sending surveys to investors who were actively trading stocks on the BSE and NSE platforms. Regression analysis and correlation studies are two statistical analytic approaches that were used to investigate the connections between investing decisions and psychological aspects. The study's conclusions add to the corpus of knowledge by illuminating the complex dynamics of financial decision-making and the part played by psychological variables. Furthermore, the knowledge gained from this study has important ramifications for financial advisors, investors, and legislators that aim to improve investor welfare and encourage well-informed stock market decision-making.

**Keywords:** Financial Behavior, Personal Investment, Psychological Factors, Investment Decision

### INTRODUCTION

Personal investing is not just about financial research and data crunching; human psychology plays a significant role as well. A plethora of psychological elements impacting risk tolerance, decision-making processes, and information processing systems influence people's decisions as they traverse the intricacies of the stock market. For investors, financial experts, and politicians alike, it is vital to comprehend the relationship between psychological aspects and investment behavior since it provides insights into the fundamental causes of market dynamics and the development of successful investment strategies [1]. At the heart of this study lies an exploration into the influence of three key psychological factors on investment decisions: risk propensity, problem framing, and information asymmetry. Risk propensity refers to an individual's inclination towards taking risks, which significantly shapes their investment choices and portfolio diversification strategies. Problem framing, on the other hand, delves into how individuals perceive investment decisions, whether as opportunities for gain or threats of loss, ultimately influencing their risk perceptions and decision-making processes [2]. Additionally, information asymmetry, characterized by disparities in access to and interpretation of financial information, plays a pivotal role in shaping investors' confidence levels and risk assessments. The study is centered on a sample of 220 investors who are active participants in two major Indian stock markets, the NSE and BSE. The research can provide valuable insights that can guide the creation of customized investment plans, risk

management systems, and investor education programs that aim to improve investor welfare and encourage well-informed decision-making in the dynamic and always changing stock market environment.

## **LITERATURE REVIEW**

Personal investment behavior has long been understood to be the result of a complex interaction between psychological and financial elements. This review of the literature examines the body of research on the impact of psychological variables on investment decisions made by participants in stock markets like the NSE and the BSE, such as risk propensity, problem framing, and information asymmetry [3]. Personal investment behavior is heavily impacted by a range of psychological elements that mold people's decision-making processes. These psychological elements are very important in influencing how investors view risks, choose investments, and respond to changes in the market [4]. Investors' propensity for volatile assets like stocks or safer options like bonds is determined by their risk tolerance, which is impacted by age, income level, and personality qualities. Irrational decision-making is caused by cognitive biases like confirmation bias and anchoring bias, which distort perceptions and ignore contradicting information. Investors may act impulsively during market downturns or chase high profits without taking risks because of emotions like fear, greed, or overconfidence [5]. Herd mentality, which is fueled by peer pressure and FOMO, can cause investors to follow the herd and cause market booms and crashes. Additionally important are framing effects, in which how investment options are presented affects how risk is perceived and how decisions are made. While financial advisors and legislators can create interventions to reduce biases and assist investors in making better decisions, it is essential for investors to understand these psychological impacts in order to make well-informed decisions that are in line with their financial goals and risk tolerance.

### **1. Risk Propensity**

A key component of individual investor behavior is risk inclination, which includes the desire to take on risks in the hopes of making money. In their groundbreaking work on prospect theory, the study [6] showed that people who are presented with possible losses behave in a risk-seeking manner, a phenomenon known as loss aversion. The significance of cognitive biases, such as overconfidence and framing effects, in influencing investors' risk choices was further clarified by [7] subsequent study. According to [8] study, investors with a high risk inclination frequently engage in excessive trading because they are motivated by the hope of making speculative gains. Comprehending the risk aversion of investors is essential to creating customized investment plans and maximizing portfolio distribution to conform to individual risk inclinations.

### **2. Problem Framing**

People's perceptions of risk and how they make judgments about investments are greatly influenced by the way they present potential gains or potential losses. The idea of loss aversion was first presented by [9] which postulated that people are more susceptible to possible losses than comparable rewards. When faced with possible losses, investors adopt risk-averse behaviors as a result of this decision-making asymmetry, which influences their portfolio strategies and investment decisions. Suboptimal decision-making is further exacerbated by psychological biases such mental accounting and framing effects, which cause investors to undervalue prior gains and overvalue recent losses [10] Understanding how investor behavior is influenced by problem framing is crucial for creating risk management plans that work and encouraging logical decision-making in the financial markets.

### **3. Information Asymmetry**

One ubiquitous feature of financial markets is information asymmetry, which describes differences in how market participants can obtain and interpret financial data. In his groundbreaking work on the efficient market hypothesis, [11] proposed that asset prices are an accurate representation of all available information, indicating a low degree of information asymmetry, [12] however, contested this idea, emphasizing that asymmetric knowledge exists in markets as a result of things like insider trading and unequal access to proprietary information. The impact of information asymmetry on market liquidity and price discovery was further investigated by [13] information-based trading model, which showed how knowledgeable traders might profit from information advantages. Regulatory bodies and market players looking to decrease information asymmetry must comprehend the effects on market efficiency and investor welfare

### **4. Integration of Psychological Factors**

In the discipline of behavioral finance, the incorporation of psychological elements into conventional financial models has grown in popularity with the goal of improving our comprehension of investor behavior and market dynamics. According to [14] adaptive market hypothesis, the idea of market efficiency is called into question because investor behavior is said to change over time in response to shifting information environments and market conditions. Similar to this, [15] bounded rationality model highlights the limitations of human reasoning and decision-making, proposing that people make use of simplifying techniques and heuristics to get by in challenging financial situations. For investors, financial advisors, and legislators looking

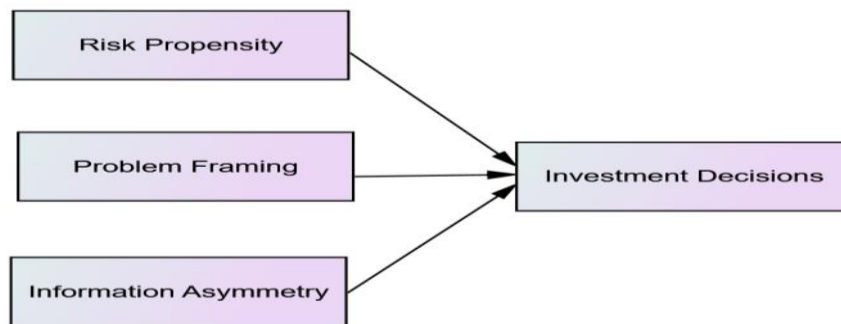
to enhance decision-making results and market efficiency, behavioral finance frameworks offer insightful information about the ways in which psychological biases, cognitive constraints, and social influences impact investing choices [16].

For investors, financial advisors, and legislators, the findings from studies on psychological aspects of investing decision-making have important ramifications. Portfolio performance and risk management can be improved with customized investment strategies that take individual risk preferences, cognitive biases, and behavioral tendencies into consideration [17]. Initiatives for investor education that seek to increase knowledge of psychological biases and encourage logical decision-making can enhance the well-being of investors and increase market efficiency [18]. Furthermore, market integrity and investor trust can be enhanced by regulatory actions aimed at reducing the negative impacts of information asymmetry and enhancing openness in the financial system [19]. Through the integration of psychological insights into investment analysis and decision-making processes, professionals can improve their capacity to negotiate intricate financial environments and attain the best possible results for investors and the broader community [20].

### OBJECTIVE

Based on Research gap the objective and this model was framed

- To study the financial behavior in personal investment are influenced by psychological factors like risk propensity, problem framing, information asymmetry on investment decision



Authors Own Conceptual Model

### RESEARCH METHODOLOGY

Probability sampling is clearly the best approach for getting statistically solid results. Probability random sampling was the method used in this study, which involved distributing a structured questionnaire to 220 Indian Stock Exchange financial investors in order to get their feedback on data gathering. After participants' replies were gathered, the data was carefully organized and examined using SPSS software. Cronbach's alpha was used as a metric to make sure the instrument was valid and reliable.

- **Instrument and Measures**

We looked at a number of variables in our study: information asymmetry, risk propensity, and problem framing were the independent variables, while investment decisions were the dependent variable. A 5-point Likert scale was used to quantify these characteristics; "strongly disagree" was given a value of 1, and "strongly agree" was given a value of 5.

**Table 1: Source and Reliability of Measurements Instrument**

Variables	No. of Items	Cronbach's Alpha
Investment Decisions	6	0.724
Information Asymmetry	5	0.787
Risk Propensity	6	0.856
Problem Framing	6	0.767

An overview of the instrument's overall reliability as well as the dependability of each dimension is given in the table. The Cronbach's alpha values for each variable indicate how reliable the corresponding dimensions listed in the questionnaire are. Interestingly, every variable's alpha coefficient exceeds the minimal reliability threshold of 0.70, as recommended by Nunnally

(1978). Therefore, the findings confirm that these various measures have a high degree of dependability when it comes to accurately evaluating each construct.

**Table 2: Correlation Analysis**

Variable	Correlation Analysis (PC)	Risk Propensity	Asymmetric Information	Problem Framing	Investment Decision
Risk Propensity	PC	1	0.414**	0.397**	0.335**
	Sig.	0.000	0.000	0.000	0.000
Asymmetric Information	PC	0.414**	1	0.498**	0.541**
	Sig.	0.000	0.000	0.000	0.000
Problem Framing	PC	0.397**	0.498**	1	0.614**
	Sig.	0.000	0.000	0.000	0.000
Investment Decision	PC	0.335**	0.541**	0.614**	1
	Sig.	0.000	0.000	0.000	0.000

Correlation analysis helps in determining the direction and degree of a relationship between two or more variables. It facilitates the understanding of how changes in one variable relate to changes in another, showing whether there is an apparent relationship between them or whether they move in opposite directions or together. The values of correlation coefficients range from -1 to 1, where 1 represents a perfect positive correlation, all above are correlated

**Table 3: Regression Analysis**

Model	R	R Square Adjusted	R Square	Std. Error of the Estimate
1	0.577a	0.456	0.318	0.7562

Three independent variables and the dependent variable of investment decision-making are the subjects of the linear regression analysis shown in Table 3. The model summary's outcomes were looked at in order to evaluate the model's fitness. According to the model summary, the adjusted R squared, at 0.318, closely resembles the R squared value of 0.456, which represents the percentage of variability in investment decision-making explained by the model. A reliable model is suggested by the high value of R. The predictability level, however, is 45.6%, which seems low and might be the result of unexplained variables in the model.

**CONCLUSION**

To sum up, psychological considerations have a significant and diverse impact on individual investment decisions. According to research, investment habits are frequently driven by emotions like fear, greed, and overconfidence, which can result in both successes and failures in the financial markets. Investor perceptions and decisions are greatly influenced by cognitive biases, including loss aversion, confirmation bias, and anchoring, which can occasionally result in illogical behavior. Variations in investment behavior are also influenced by individual variances in risk tolerance, time horizon, and financial literacy. Herd mentality and social proof are two psychological phenomena that can have a significant impact and lead investors to follow the herd rather than doing their own research. Behavioral finance theory offers frameworks for controlling biases and enhancing decision-making processes, which are helpful in comprehending these psychological aspects. Though behavioral biases are becoming more widely recognized, they are still common and, if ignored, can negatively impact investment results. Effective investors frequently utilize tactics like portfolio rebalancing on a regular basis, disciplined investment plans, and diversification to reduce the influence of psychological influences on their investing choices. Self-awareness and financial education are essential for enabling people to identify and effectively manage their behavioral biases. Additionally, using technology tools like robo-consultants or consulting financial advisors can offer objective assistance and lessen the impact of emotions on investment decisions. Ultimately improving their long-term financial well-being through their skill and self-assurance. Ultimately, developing a robust and effective investment plan that is suited to specific objectives and risk tolerances requires an understanding of the interaction between psychological variables and individual investing behavior. Investors can handle the intricacies of the financial markets with better confidence and competence by incorporating behavioral finance ideas and developing disciplined investment habits, which will eventually improve their long-term financial well-being. The connection between psychological characteristics and investment decisions and their policy implications highlights the need of investor education programs aimed at improving financial literacy and behavioral bias awareness. In order to lessen the possible negative consequences of psychological biases on market integrity and investor confidence, regulators may also think about putting safeguards in place, such as disclosure laws and investor protection programs.

**REFERENCE**

1. Potrich, A. C. G., Vieira, K. M., & Kirch, G. 2014. Determinants of Financial Literacy: Analysis of the Influence of Socioeconomic and Demographic Variables. *R. Cont. Fin. - USP, Sao Paulo*, Vol. 26, No. 69, pp. 362-377
2. Akilandeewari, S. V., Nagpal, P., Vinotha, C., Jain, K., Chatterjee, R., & Gundavarapu, M. R. (2024). Transforming E-Commerce: Unleashing the Potential Of Dynamic Pricing Optimization Through Artificial Intelligence For Strategic Management. *Migration Letters*, 21(S3), pp. 1250-1260. ISSN: 1741-8984. ISSN: 1741-8992
3. Small, D. and Lerner, J. S. (2008). Emotional Policy: Personal Sadness and Anger Shape Judgments about a Welfare Case. *Political Psychology*, 29(2), 148-168.
4. B. Krishna Kumari, V. Mohana Sundari, C. Praseeda, Pooja Nagpal, John E P, Shakti Awasthi. (2023). Analytics-Based Performance Influential Factors Prediction for Sustainable Growth of Organization, Employee Psychological Engagement, Work Satisfaction, Training and Development. *Journal for ReAttach Therapy and Developmental Diversities*, 6(8s), 76–82.
5. Anurag Shrivastava, S. J. Suji Prasad, Ajay Reddy Yeruva, P. Mani, Pooja Nagpal & Abhay Chaturvedi (2023): IoT Based RFID Attendance Monitoring System of Students using Arduino ESP8266 & Adafruit.io on Defined Area, *Cybernetics and Systems*, DOI: 10.1080/01969722.2023.2166243
6. P Nagpal., (2022). Organizational Commitment as an Outcome of Employee Engagement: A Social Exchange Perceptive using a SEM Model. *International Journal of Biology Pharmacy and Allied Science*. January, Special Issue, 2022, 11(1): 72-86. <https://doi.org/10.31032/IJBPAS/2022/11.1.1008>
7. Madhusudhan R. Urs. & Pooja Nagpal., (2019). A study on Determinants and Outcomes of Job Crafting in an Organization; *Journal of Emerging Technologies and Innovative Research*, 7,(15). 145-151. ISSN: 2349-5162.
8. Janssen, M.A. and W. Jager (2001) Fashions, habits and changing preferences: Simulation of psychological factors affecting market dynamics, *Journal of Economic Psychology*, 22: p. 745-772
9. Pooja Nagpal (2023). The Impact of High Performance Work System and Engagement. *Business Review*. Vol 17 (1) 57-64, ISSN 0973- 9076
10. S. H. Abbas, S. Sanyal, P. Nagpal, J. Panduro-Ramirez, R. Singh and S. Pundir. (2023). "An Investigation on a Blockchain Technology in Smart Certification Model for Higher Education," 10th International Conference on Computing for Sustainable Global Development (INDIACom), New Delhi, India from 15-17 March 2023, pp. 1277-1281.
11. Vries, M., Holland, R. W., Corneille, O., Rondeel, E. and Witteman, C. (2010). Mood Effects on Dominated Choices: Positive Mood Induces Departures from Logical Rules. *Journal of Behavioral Decision Making*, 25, 74-81
12. J. Divya Lakshmi, P. Nagpal.,et al., (2021). Stress and Behavioral Analysis of Employees using Statistical & Correlation Methods. *International Journal of Aquatic Science* 12(01), 275-281.ISSN: 2008- 8019 2021.
13. G. Gokulkumari, M. Ravichand, P. Nagpal and R. Vij, "Analyze the political preference of a common man by using data mining and machine learning," 2023 International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India, 2023, pp. 1-5, doi: 10.1109/ICCCI56745.2023.10128472.
14. R. Bhattacharya, Kafila, S. H. Krishna, B. Haralayya, P. Nagpal and Chitsimran, "Modified Grey Wolf Optimizer with Sparse Autoencoder for Financial Crisis Prediction in Small Marginal Firms," 2023 Second International Conference on Electronics and Renewable Systems (ICEARS), Tuticorin, India, from 2-4 March 2023, pp. 907-913, doi: 10.1109/ICEARS56392.2023.10085618
15. Dwyer, P. D., Gilkeson, J. H., & List, J. A. (2002). Gender differences in revealed risk taking: evidence from mutual fund investors. *Economics Letters*, 76(2), 151–158.
16. Davis, R., Campbell, R., Hildon, Z., Hobbs, L. and Michie, S. (2015), "Theories of behaviour and behaviour change across the social and behavioural sciences: a scoping review", *Health Psychology Review*, Vol. 9 No. 3, pp. 323-344
17. Pooja Nagpal (2022) Online Business Issues and Strategies to overcome it- Indian Perspective. *SJCC Management Research Review*. Vol 12 (1) 1-10. June 2022, Print ISSN 2249-4359. DOI:10.35737/sjccmrr/v12/i1/2022/151
18. Kourtidis, D., Sevic, Z. and Chatzoglou, P. (2011), "Investors' trading activity: a behavioural perspective and empirical results", *The Journal of Socio-Economics*, Vol. 40 No. 5, pp. 548-557
19. P. William, A. Shrivastava, H. Chauhan, P. Nagpal, V. K. T. N and P. Singh, "Framework for Intelligent Smart City Deployment via Artificial Intelligence Software Networking," 2022 3rd International Conference on Intelligent Engineering and Management (ICIEM), 2022, pp. 455-460, doi: 10.1109/ICIEM54221.2022.9853119
20. N Rajput, G Das, K Shivam, CK Nayak, K Gaurav, P Nagpal (2021), An inclusive systematic investigation of human resource management practice in harnessing human capital. *Materials Today: Proceedings*, 2021, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.07.362>.