
Financial literacy and investment decision: A study from two tier city Ballari district, Karnataka

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Financial literacy, a critical skill set for managing personal finances and making informed

economic decisions, has seen an evolution in research, gradually expanding its scope to encompass a wide range of demographic and socioeconomic backgrounds. This study investigates the relationship between financial literacy and investment decisions among individuals of Ballari District, Karnataka participating in the stock market. It also examines the moderating role of “overconfidence” in this relationship.

Methods: A quantitative approach was employed using a questionnaire on financial literacy. The instrument included six sections: demographic information, factors influencing investment decisions, financial literacy, knowledge, and behavior. A total of 150 investors were surveyed.

Results: The findings reveal that investors of Ballari District possess a basic level of financial literacy, which positively influences their investment decisions.

Demographic variables showed no significant effect on financial literacy.

However, overconfidence was found to strengthen the relationship between financial literacy and investment decision-making.

Discussion: The study provides new insights into how financial knowledge and behavioral biases, such as overconfidence, jointly shape investment behavior.

These findings highlight the importance of financial education initiatives and behavioural training in enhancing investor

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decision-making in emerging markets like two tier cities such as Ballari in Karnataka.

Keywords: *behavioural finance, financial literacy, investment decisions, overconfidence,*

Introduction

In India, about 27% of adults are classified as financially literate, falling well below the global and advanced economies averages. While digital payment adoption is booming, the core understanding of budgeting, investment risks, and debt management remains low, creating critical vulnerability to debt traps and lifelong financial insecurity.

Measuring Financial Literacy essentially involves measuring a combination of awareness, knowledge, skill, attitude and behaviour necessary to make sound financial decisions and ultimately achieve individual financial well-being.

Financial literacy, an expository skill set for managing personal finances and making informed economic decisions, has seen an evolution in research, gradually expanding its scope to encompass a wide range of demographic and socioeconomic backgrounds.

Recent studies have expanded the discussion by integrating behavioral factors into financial education. Maheshwari et al. (2025) overconfidence acts as a significant mediator between financial literacy and investment behavior because people with high confidence but limited knowledge base tend to make poor investment decisions. Yanti and Endri (2024) discovered that Jakarta millennials' overconfidence together with their financial behavior directly affects their financial literacy levels and investment choices. This link between literacy and economic outcomes is particularly evident in developing regions, where higher levels of financial literacy correlate with entrepreneurial success (Bongomin et al., 2017). Moreover, Grohmann et al. (2018) highlight that the benefits of financial literacy vary across different income

levels and demographic segments, underscoring the importance of tailored interventions that address diverse financial needs in Ballari city, financial literacy is the first objective of the 5-year national financial inclusion plan. The dual challenge of low financial literacy and behavioral bias becomes more relevant. Therefore, understanding how financial literacy interacts with overconfidence is essential for improving investment decisions and fewer have explored how psychological biases, such as overconfidence, impact the application of financial knowledge in investment choices.

In the light of instability of the results regarding the level of financial literacy among Indian investors and its role in the effectiveness of investment decisions, this research came to investigate the degree of investors' financial literacy who invests in Indian stock market as well as the effect of demographic factors on financial literacy, such as gender, age, education specialization, investment experience, job title, and monthly income. In addition, the researcher tests the relationship between financial literacy and the factors affecting investment decisions.

The research aims to answer questions related to the level of financial literacy among investors and a key focus is on overconfidence, a psychological factor that influences the relationship between financial literacy and investment decisions.

By exploring overconfidence, the study reveals how psychological biases may affect the application of financial knowledge in investment decisions.

This paper probes into the scope of stock market as an emerging and maturing financial market, aiming to provide valuable insights into the investment choices of investors in developing

countries. It highlights the critical importance of assessing the level of financial literacy and the psychological biases, such as overconfidence, that shape investment behavior. A key premise of this study is that differing levels of financial literacy in the developing world give rise to varied patterns of investment behaviors, which can have a significant impact on economy both positively and negatively.

The rest of this paper is organized as follows:

Section 2 reviews the literature on financial literacy, overconfidence, and investment decision-making.

Section 3 describes the research methodology, including data collection tools and model specification.

Section 4 presents the empirical findings and analysis.

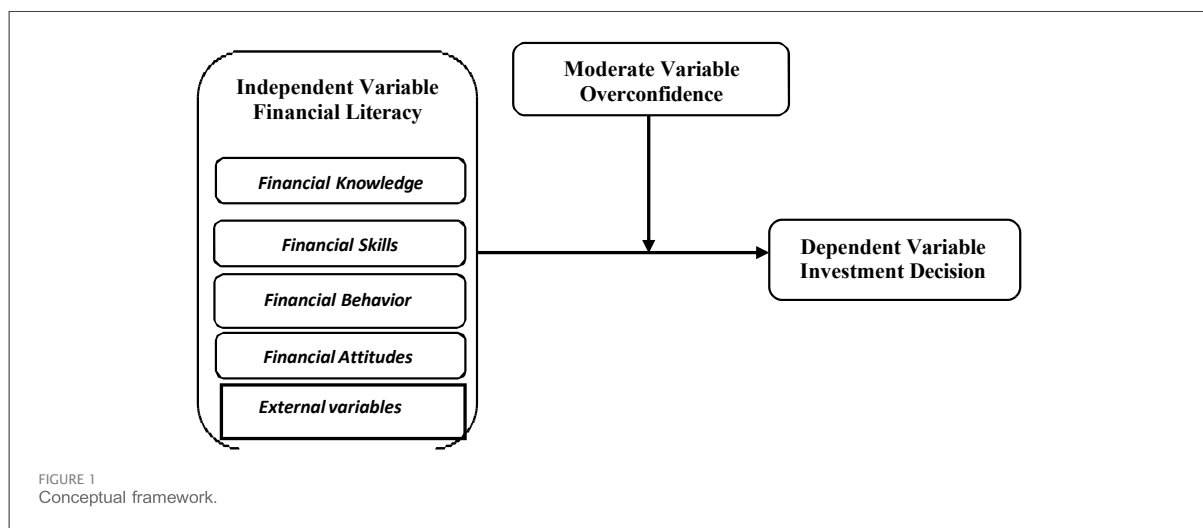
Section 5 concludes the paper by summarizing the main results, outlining policy implications, and identifying the study's limitations and areas for future research.

Literature review

Financial literacy, as defined by the Organisation for Economic Co-operation and Development (2005), encompasses a combination of financial awareness, knowledge, skills, attitudes, and behaviors necessary for achieving personal financial wellbeing. This definition underscores the importance of not only understanding financial concepts but also applying them effectively in real-world situations. Huston (2010) further emphasizes that financial literacy is crucial for interpreting and utilizing financial information, enabling individuals to make informed decisions about saving, investing, and borrowing. Additionally, Remund (2010) argues that confidence in applying financial knowledge

should be included as a key component of financial literacy measurement, as it significantly influences decision making effectiveness. Van Rooij, Lusardi, & Alessi (2011/2012) Their methodologies, broadly replicated in Indian research, mathematically proved that low literacy blocks stock market participation. As shown in Figure 1, the conceptual framework illustrates the relationship between financial literacy and investment decision-making, with overconfidence acting as a achieving economic empowerment in such contexts. In this respect, some studies carried out in Indian cities, have focused on financial literacy for retail investors and the extent of their knowledge and perception regarding the importance of accounting information in rationalizing their investment decisions. Lusardi & Mitchell (2014) Established a foundational global standard frequently utilized in Indian studies. They defined it as the ability to process economic information to make complex, personal multi-decade calculations. These decisions include long-term budgeting, future healthcare requirements, and family milestones. Mathavathani & Velumani (2014) Investigated the financial metrics of rural women in Tamil Nadu. They observed exceptionally low levels of advanced financial comprehension.

Despite these efforts, research on financial literacy remains scarce, and the current situation points to a need for more detailed analysis. There is little data available on how various demographic factors, such as age, gender, income, and education, influence financial literacy levels and investment behaviors in the region. Moreover, while several studies globally have linked financial literacy to better financial decision-making, with overconfidence acting as moderate variable.



Similarly, Lusardi and Mitchell (2014) demonstrated that financial knowledge and numeracy skills are essential for navigating complex financial situations, such as retirement planning and managing unexpected financial shocks.

These findings highlight the practical benefits of financial literacy in enhancing individuals' ability to make sound financial choices. However, disparities in financial literacy levels across demographic groups remain a significant challenge. Singh (2014) noted that financial literacy varies widely based on factors such as age, gender, education, and income, suggesting that targeted financial education programs are necessary to address these gaps. This is particularly relevant in developing economies, where access to financial education is often limited, and financial markets are less transparent. Verma, Nema, & Pandagre (2017) Reviewed state-sponsored financial literacy camps. They concluded that structural enrollment in institutional finance cannot yield positive financial security without mandatory curriculum updates. Swetha Kumari (2020) Highlighted the friction between structural financial inclusion initiatives like the Pradhan Mantri Jan Dhan Yojana (PMJDY) and true financial education. Kumari formulated that while financial inclusion focuses purely on volume (account creation),

financial literacy emphasizes qualitative usage. She argued that higher literacy acts as a shield against digital market frauds), she has also explored the impact of financial literacy on undergraduate students, revealing that despite low levels of financial knowledge, increased literacy positively influenced their investment choices.

Overconfidence, a well-documented cognitive bias, plays a significant role in shaping financial behavior. Daniel and Titman (2000) and Ricciardi and Simon (2001) demonstrated that overconfidence distorts risk perception, leading to excessive risktaking and suboptimal investment decisions. Kahneman's (2012) Nobel-winning work on behavioral finance further elucidated how overconfidence can lead to systematic errors in judgment, even among financially literate individuals. Chu et al. (2012), have explored the interplay between financial literacy and overconfidence. They found that while financial literacy can mitigate some of the negative effects of overconfidence, it does not eliminate them entirely. For example, overconfident investors often exhibit the disposition effect, holding onto losing investments for too long and selling winning investments too early (Chu et al., 2012). Recent studies, such as those by Weixiang et al. (2022), Alshebami and Aldhyani (2022), behaviors,

driven by overconfidence, can undermine the benefits of financial literacy and lead to poor investment outcomes. Rani & Siwach (2023) Conducted a comprehensive metadata analysis examining college students, young employees, and diverse demographic segments. They uncovered an asymmetric distribution of knowledge. While tech-savvy youth possess moderate digital financial familiarity, they severely lack long-term debt-management skills. Rath & Patra (2023) Argued that financial literacy is an urgent structural requirement in India.

The research by Wahyu and Firmialy (2024) showed that financial literacy and overconfidence both affect investment choices of Generation Z investors in Bandung while risk tolerance served as a mediating factor and gender functioned as a moderator. Zhou and Wei (2025) showed that when investors demonstrate excessive confidence about their financial understanding, they tend to sell their assets excessively and react too strongly to market volatility. Interestingly, Pikulina et al. (2017) argued that overconfidence can, in some cases, have a positive impact on investment outcomes. Confident investors may be more likely to seize high-return opportunities by leveraging their financial knowledge. However, this effect is contingent on their ability to accurately assess risks, which is often compromised by overconfidence. Thus, while overconfidence can occasionally enhance decision-making, it generally exacerbates risk-taking behaviors and reduces the effectiveness of financial literacy.

In India, financial literacy remains a significant challenge, with studies indicating low levels of financial knowledge among investors. Baker, H.K., Kumar, S., Goyal, N., Gaur, V. (2019) found that investors often lack awareness of the importance of financial information in making informed investment decisions. The Indian context is further complicated by economic instability and political uncertainty, which exacerbate the challenges faced by investors. As such, tailored financial literacy initiatives are

essential for improving investment behaviors and fostering economic growth.

Despite a growing body of research explores the role of financial literacy in shaping individual financial behavior, much of this literature is concentrated in developed economies, with limited focus on two tier cities of developing countries. Most studies examine financial knowledge in isolation, without accounting for behavioral biases like overconfidence that often distort rational investment decisions. While recent research has acknowledged the psychological dimensions of financial behavior (e.g., Alshebami and Aldhyani, 2022; Wahyu and Firmialy, 2024), empirical studies integrating both financial literacy and overconfidence bias among investors remain scarce. Furthermore, there is a lack of research that examines how demographic variables interact with behavioral and knowledge based factors to shape investment outcomes.

To address these gaps, the research aims to fill these knowledge gaps by studying financial literacy effects on investment choices of investors while analyzing how overconfidence bias influences these decisions.

The research objectives include: This study evaluates the financial literacy levels which investors demonstrate while trading on the Stock Exchange.

The research investigates how financial literacy directly affects investment decisions.

The study investigates how overconfidence acts as a moderator between financial literacy and investment decisions.

The research investigates how demographic factors including age, gender, education level and experience affect both financial literacy and investment choices.

Finally, this study highlights the importance of financial literacy in enhancing investment decision-making, particularly in developing economies like India. It also studies the complex

interplay between knowledge and behavioral biases like overconfidence, which can either support or undermine financial decisions.

Hypothesis

H1: investors exhibit a moderate level of financial Literacy.

Research on financial literacy has consistently demonstrated its critical role in shaping individual and community financial decision-making, particularly in unexpected or challenging circumstances. Empirical facts from regulatory body, specifically the comprehensive SEBI investor survey 2025, highlights 36% of retail investors possess moderate knowledge on securities

H2: Higher levels of financial literacy significantly improve the quality of investment decisions.

Higher levels of financial literacy are associated with improved decision-making abilities, as evidenced by Miller et al. (2015) in their meta-analysis of 188 studies. Similarly, Lusardi and Mitchell (2014) emphasized that financial knowledge and numeracy skills are essential for navigating complex financial situations,

Accordingly, the third hypothesis can be as follows:

H3: Demographic factors, including gender, age, academic qualification, field of specialization, and investment experience, significantly influence the financial literacy levels among investors.

However, disparities in financial literacy across demographic groups, such as age, gender, and education, the need for targeted financial education initiatives to enhance market transparency and price monitoring (Singh, 2014)

H4: Overconfidence positively moderates the relationship between financial literacy and investment decision-making.

Overconfidence further enhances the complexity of this relationship between financial literacy and

quality in investment decisions. Overconfidence, according to the studies of Daniel and Titman (2000) and Ricciardi and Simon (2001) is also one of those factors that distort risk perception and result in riskier investment behavior. Recent work by Weixiang et al. (2022) and Chu et al. (2012) further supports Kahneman's Nobel-winning work on this issue, showing that financial literacy indeed dampens the negative effect of overconfidence, enabling individuals to make more balanced and informed financial decisions.

Research methodology

This study relied on the appropriate descriptive analytical approach by conducting the necessary statistical analysis of the study variables (financial literacy, overconfidence, and investment decisions) derived from the data collected from the study sample by means of a questionnaire, in order to know the effect of the independent variables on the dependent variable and the role of the mediating variable in this relationship, and thus to come up with the most important results and recommendations. The population spread is very high; hence, referred to Sekaran and Bougie (2016) sampling table to arrive at the sample size.

- **Sample size:** Based on the guidelines from Sekaran and Bougie, researcher aimed for a sample size of 250 investors. The questionnaire was distributed via an electronic link to four brokerage firms includes both discount and non-discount, who sent the survey to a random selection of investors.

- **Responses:** Of the 250 questionnaires distributed, researcher received 170 responses, of which 150 were deemed eligible after reviewing for completeness and relevance to the study.

Data collection sources

Researcher relied on two primary sources to gather the necessary information and data for the study.

Secondary Data: The researcher used the secondary sources to collect the necessary data and information, represented by books and related literature, scientific journals, published

research, and university theses. Researcher also used electronic resources available on the Internet and various databases to obtain the latest scientific research on the subject of study.

Primary Data: A questionnaire related to the subject of the study was developed based on the theoretical framework of this study and the previous studies that were presented previously. Study examines several key variables to understand the relationship between financial literacy, overconfidence, and investment decisions:

- **Independent Variable (Financial Literacy):** Independent Variables are measured using a questionnaire, covering financial knowledge, understanding of financial products, and the ability to apply financial concepts to real-world scenarios.

- **Dependent Variable (Investment Decisions):** Investor profiles are elicited via enquiry revealed through questionnaire that evaluate diversification levels, risk tolerance and the types of assets in which funds are allocated (e.g., stocks, bonds, real estate)

- **Moderating Variable (Overconfidence):** Measured through a comparison of participants' self-assessed financial knowledge and confidence with their actual performance in financial literacy questions.

Demographic Factors: Age, gender, education, job title, income level, and years of investment experience were collected to understand their influence on both financial literacy and investment decisions

Results

TABLE-1

Personal variables	Categories	Frequency	Percent
Gender	Male	83	55.4
	Female	67	44.6
	Total	150	100.0
Age	<30	87	58.0
	30–40 years	31	20.6
	41–50 years	20	13.2
	more than 50 years	12	8.2
	Total	150	100.0
Academic degree	High school	10	6.6
	Diploma	6	4.0
	Bachelor degree	112	74.6
	Master or Ph.D.	22	14.8
	Total	150	100.0
Area of Specialization	Finance and banking	95	63.3
	Business and economics	54	36.0

	Other field	1	0.7
	Total	150	100.0
Experience in stock market	<5 years	106	70.6
	between 6 and 9 years	17	11.3
	10 years and above	27	18.1
	Total	150	100.0
Job Title	Employee	37	24.6
	Professional	36	24.2
	Business	37	24.6
	Other	40	26.6
	Total	150	100.0
Income monthly	Less than Rs 1lakhs	77	51.3
	Rs 1 lakh –2 lakhs	26	17.3
	Rs 2 lakh –3 lakhs	26	17.3
	Above 3 lakhs	21	14.1
	Total	150	100.0

An examination of the demographic and background profiles of the survey participants, which is presented in Table 1, The majority of participants in this study are male (55.4%) compared to female (44.6%), suggesting an almost balanced gender distribution. This diversity makes possible a more extensive exploration of views on investments considering gender differences.

It is evident from the data that the majority of participants, approximately 58%, are aged below 30, which indicates that investment is dominated by the young generation, could be inclined to more aggressive trading strategies or hold higher risk tolerance.

The higher education level among the sample is high, with 74.6% stating that the respondents have a good educational background where the possibility of having knowledge of financial markets should not be ignored.

However, as part of a generalized financial education, and specifically in finance and banking (63.3%), it may affect investment decisions too.

The distribution of experience shows that traders with <5 years on the market make up a large part of the sample (70.6%), potentially indicating a lack of practical knowledge to make investment decisions. This is a significant factor as it could potentially impact the reliance on various factors during decision making, given that these levels can range from low to high in terms of confidence and comprehension.

One of the ways to better understand the participants and their investment behavior is through their job titles and income levels, which are indicators of professional and economic background and could potentially affect their investment choices and risk appetite. Individuals with higher incomes are more likely to choose riskier investments, as they may have a greater tolerance for loss. Going further than descriptive

statistics, this work uses a five-point Likert scale to determine the factors that influence investment decisions. The division into low, medium, and high agreement scores enables a more detailed understanding of respondents' attitudes toward the investment decision factors.

In a similar vein, an alternative examination in this context highlights the role of addressing investment decision subdimensions, which may consist of personal and financial needs, company image, advocate opinions, neutral information, and accounting information. A deep insight into these factors is required to cover a full-spectrum analysis of how investor demographic and

background characteristics, along with individual attributes and perceptions, can contribute to shaping the investment decision-making process.

It is very important to consider what these results mean. This kind of interpretation goes beyond the scope of this paper it could be mentioned that high dependability on accounting information implies that investors pay more attention to financial health and performance indicators while making investment decisions. The pronounced role of company image and advocate recommendations in driving investment behavior reflects the significance of reputational cues and social media influences.

TABLE 2 Diagnostic statistics and scale items for study variables.

Dimensions	Sub-dimensions	Number of items	Cronbach's alpha	Skewness	Kurtosis
Factors Affect Investment Decision	Financial and personal needs	6	0.78	—	—
	Company image	7	0.81	—	—
	Neutral information	7	0.72	—	—
	Advocate recommendation	5	0.89	—	—
	Accounting information	9	0.78	—	—
Factors affect investment decision		34	0.93	-0.302	1.344
Financial knowledge		20	0.707	-1.082	1.849
Financial skills		7	0.705	-1.006	0.343
Financial behavior		9	0.752	0.302	0.396
Overconfidence decisions		7	0.785		

(Survey through questionnaire)

It is noteworthy that knowledge of investment decision-making differs with demographic characteristics that allow the design of particular financial educational programs. Meanwhile, in order to obtain information on how low the level of financial literacy is among participants of the training seminar, we analysed which indicators and methods should be used for assessing

financial literacy, and this analysis showed that almost all basic knowledge regarding market indicators and estimating financial risks is lacking or weak.

Reliability of the study tool

The principle of reliability refers to the degree of stability and consistency of answers in relation to a given scale. Researchers typically measure scale reliability by determining the extent of internal consistency using Cronbach's alpha coefficient. The scale is considered valid if Cronbach's alpha is >0.70 ; however, this study adopts Cronbach's alpha value for all variables. Table 2 showed that all of Cronbach's alpha values were >0.70 (Hair Jr et al., 2011). Therefore, we conclude that the scales adopted in this study have a suitable level of reliability.

Table 2 provides some insight into the reliability and distribution of the study variables, which explain factors influencing investment decisions through diagnostic statistics. It is evident from Cronbach's alpha values for each sub-dimension that all have a satisfactory to excellent level of internal consistency, meaning that items within each sub-dimension measure reliably the same construct. The Advocate Recommendation subdimension shows the highest reliability ($\alpha = 0.89$), which implies a very strong internal consistency among the items, indicating how much investors rely on advocate recommendations when making their investment decisions. This exceptionally high reliability testifies to the coherence of the items assessing investors' reliance on advocate recommendations.

On the other hand, neutral information and financial knowledge have the lowest-values for Cronbach's α scores ($\alpha = 0.72$ and $\alpha = 0.707$), but still are above the acceptable threshold of 0.7 for reliability values, indicating a relatively less reliable yet still unbroken collection of items measuring those sub-dimensions. The meaning is that though the items may be, in general, coherent in terms of content validation and theoretical underpinnings, there might be an option to further purify scales on them toward better concordance within their different components. The general reliability of Cronbach's alpha for the Factors Affecting

Investment Decision scale ($\alpha = 0.92$) is way above the desired level, which is a reflection of exceptional consistency within the scale. Given this high consistency, we can confidently assert that the scale accurately captures the intricate nature of investment decision factors, thereby serving as a dependable foundation for future research.

Analysing skewness and kurtosis values, the authors reinforced the study with a methodological approach. The reported figures were all well within the normal distribution range, confirming that we are dealing with parametric data that allows for flawless performance of statistical tests. According to this particular characteristic of normality, a well-balanced dataset with no significant deviations from the mean is mandatory to ensure the accuracy and precision of any statistical analysis in the study being conducted. These findings have implications beyond just statistics. The scales' trustworthiness demonstrates that the research reveals all aspects of factors affecting investment decisions, such as financial and personal needs, company reputation, and advocate recommendations. The shape of the data with a normal distribution implies that it is likely to be representative, making the study's conclusions applicable beyond this sample. An effective methodological frame further supports the numbers generated by the diagnostic statistics, providing a strong foundation for investigating the connections between factors and investment decisions. By ensuring both reliability and normal distribution in the variables used in this study, it sets a standard that subsequent researchers can carry out more extensive analyses on those components that have not yet unveiled their complicated logics of investment behavior.

Structural honesty

Structural validity refers to the relationship of the degrees of the items on the scale to the total degree if it measures one thing, and exploratory factor analysis indicates that the components or items measure something in common, which

means their structural validity. Exploratory factor analysis also uses the observed factors as categories to classify variables into the factors they represent.

The results of the factor analysis of the domain of factors affect investment decisions. Researcher

used exploratory factor analysis to verify the psychometric properties of the questionnaire. The rotation matrix for the items of the factors that affect investment decisions, including five sub-dimensions measured using 34 items, is presented in Table 3.

TABLE 3

Item	Component				
	1	2	3	4	5
1	0.696				
2	0.678				
3	0.643				
4	0.665				
5	0.698				
6	0.611				
7		0.819			
8		0.618			
9		0.715			
10		0.704			
11		0.647			
12		0.611			
13		0.723			
14			0.670		
15			0.624		
16			0.649		
17			0.579		
18			0.555		
19			0.715		
20			0.769		
21				0.655	
22				0.574	
23				0.756	
24				0.789	

25				0.599	
26					0.620
27					0.629
28					0.709
29					0.757
30					0.743
31					0.640
32					0.922
33					0.591
34					0.923

(Survey through questionnaire)

As shown in Table 3, the exploratory factor analysis identified five components, or factors, that represent the different aspects of investment decisions. In this study, the orthogonal rotation method yielded loadings ranging from 0.555 to 0.923, all exceeding the standard threshold of 0.4. It implies an ideal, unequivocal pattern of association between the questionnaire questions and the corresponding factors that they attempt to reflect. The readability and understanding provided by the proposed factor structure confirm not only that it is appropriate to the theory underlying this work, but also that each factor has distinct impacts on investors' investment decisions.

The allocation of items across the five components illustrates the interrelated factors influencing investment decisions. Items with the highest loadings on each component, for example, can be considered indicators reflecting those factors. This subtle categorization delivers priceless information on what exact details of widespread financial and personal needs and company image matter most to investors. The distinction contributes to an in-depth analysis of investment behaviors and how various aspects come together to shape decision-making processes. In addition, even though the determinant of the correlation matrix is low

(0.013), it is nevertheless significant and not zero, indicating that the problem of multicollinearity does not exist within the analyzed group. This requirement is essential for a factor analysis because it ensures that each item uniquely contributes to exploring the factors; there should be no repetition or redundancy when selecting items for a given scale. An important indicator of sample adequacy, the Kaiser–Meyer– Olkin (KMO) statistic is an impressive 0.84, well above the critical threshold value of 0.5. The large KMO value suggests that the size of the sample analyzed for our study has been sufficient; this, in turn, strengthens our belief that the factor analysis results are also dependable and accurate. A large KMO value is indicative of the degree to which variables are predicted by other variables with no error and hence can be used for structure identification by factor analysis.

Based on Bartlett's Test of Sphericity, the data can be factored, as evidenced by a test statistic of 5,145.632, which is statistically significant at the 0.000 level against an alpha level set at 0.05. This suggests a strong rejection of the null hypothesis that the variables are orthogonal (uncorrelated). Instead, it proves relationships among the variables. Also, it gives a green light to use factor analysis with the dataset, as this means that the

variables are highly enough correlated to justify dimension reduction.

The results of the factor analysis of the domain of behavior

Researcher used exploratory factor analysis to verify the psychometric attributes of the questionnaire. The rotation matrix for the nine items measuring behavior is presented in Table 4 below

TABLE 4 Rotation matrix for the items of behavior

Item	Component
1	0.658
2	0.486
3	0.588
4	0.625
5	0.656
6	0.568
7	0.655
8	0.699
9	0.596

(Survey

through

questionnaire)

The exploratory factor analysis provides valuable insights into the psychometric qualities of a measuring tool for the behavioral domain. All nine items loaded above the minimum standard level of 0.4, indicating an acceptable level of item-factor correlation. This distribution emphasizes behavior as a multi-faceted trait, and separate dimensions create this more general construct. The determinant of the correlation matrix is 0.02, indicating no multicollinearity between components and unique identities for each item.

The KMO test score of 0.655 surpasses the minimal criterion value of 0.50, suggesting that the variables exhibit sufficient pattern and correlation to warrant an exploratory approach for latent variable identification and data reduction. Bartlett's sphericity test strengthens the data set's factorability by producing a highly significant result (213.156, Sig. = 0.000),

indicating that there are enough correlations among the variables. It is crucial to consider the identified behavioral components within a broader context, as every component demonstrates one behavioral aspect expressed through the questionnaires. The distribution pattern of item loadings suggests a complex interplay among contributing variables, necessitating an investigation into the interconnection and reciprocal reinforcement of these components.

Identified components can reflect underlying behavior theories that might be elaborated on or contested by future research. In practical terms, discerning the separate components of behavior as shown through factor analysis can help design interventions, policies, and strategies to ensure desired behavior changes. In conclusion, this outcome highlights the need to develop and

validate measurement tools constantly and consistently when conducting behavioral research. Emerging studies may improve on these results by assessing the predictive validity of behavioral components discovered or studying their application across contexts and populations.

The results of the factor analysis of the domain of decisions

Reseracher used exploratory factor analysis to verify the psychometric properties of the questionnaire. The rotation matrix for the items of the decisions, measured using seven items, is presented in Table 5 below.

TABLE 5 Rotation matrix for the items of decisions

Table -5

Item	Component
1	0.708
2	0.823
3	0.835
4	0.672
5	0.525
6	0.838
7	0.657

(Survey through questionnaire)

The exploratory factor analysis results in Table 5 provide valuable insights into the structure of decision-making when measured with a questionnaire. The factor loadings span from 0.525 to 0.838, signifying a strong connection between each item and at least one identified component, with none falling below the commonly accepted threshold. This indicates that decision-making is a multifaceted concept, with different dimensions or aspects collectively contributing to this complex construct.

The determinant of the correlation matrix is meaningful because it exceeds zero, eliminating concerns about multicollinearity between survey questions. The Kaiser–Meyer– Olkin (KMO) measure of sampling adequacy reaches 0.819,

significantly greater than the cut-off level of 0.50, confirming the sufficiency of the sample size and implying a large number of interrelations between items. This high value of KMO implies that the dataset is appropriate for finding underlying dimensions in decision-making and forms a solid basis for factor analysis.

A Bartlett test of sphericity was carried out to strengthen the case that the dataset is factorable, providing highly convincing results that affirmatively reject the null hypothesis that the variables are not related or imply they are indeed related at all. These findings have implications for intervention development, policy-making, and educational programs focused on decision-making skills. These findings add to the decision-making literature by providing evidence in favour

of the many-dimensional nature of decision-making processes and their multi-stage model. Future studies can scrutinize these dimensions further, considering how they interact with each other and external forces. The analysis is reliable, and the results can be used as they are. However, it is possible to enhance this work by using other approaches, such as confirmatory factor analysis, to test the validity of the structure identified or examine how these decision-making components vary in different population groups or contexts.

This part, including the results of the study, depends on the descriptive statistics for the research variables

Table 6 below displays some descriptive results for the research variables used in this study. The table shows the mean and standard deviation for the factors that affect investment decisions: financial knowledge, financial skills, behavior, and financial decisions.

The study evaluates various factors affecting investment decisions, with an average score of 3.95. Financial data is considered the most important factor, with an average value of 4.04, indicating that it plays a significant role in decision-making. Perhaps due to corporate reputation and social responsibility, company image ranks second.

TABLE 6 Factors affecting investments decisions.

Rank	No.	Sub-dimensions	Mean	Std. deviation	Degree of approval
1	5	Accounting information	4.07	0.50	High
2	2	Company image	4.03	0.52	High
3	4	Advocate recommendation	3.95	0.56	High
4	1	Financial and personal needs	3.90	0.51	High
5	3	Neutral information	3.82	0.54	High
Factors affect investment decision			3.95	0.44	High
1		Decrease of risk	3.99	0.85	High
2		Investment diversification	4.15	0.79	High
3		Actual Dividends	3.55	1.00	Medium
4		Easiness of getting a loan	4.09	0.82	High
5		Expected Dividends	4.03	0.81	High
6		Expected losses in local market	3.49	1.10	Medium
Factors related to financial and personal needs			3.88	0.51	High
1		Religion believes	4.15	0.90	3
2		Board of directors' reputation	4.32	0.86	1
3		Company reputation	4.16	0.77	2
4		The company's position in the industry	3.96	0.85	5

5	Company code of ethics	3.97	0.86	4
6	Company's corporate governance	3.86	0.88	6
7	Company's social responsibility	3.73	0.91	7
Factors related to the company image		4.03	0.51	High
1	Market index volatility	3.44	1.07	6
2	Media coverage	3.98	0.70	3
3	Government as an investor	3.72	0.86	5
4	General economic indicator	4.18	0.83	1
5	Local political stability	4.01	0.82	2
6	Global political stability	3.88	0.83	4
7	Recommendation from broker	3.35	1.05	7
Other sources (neutral) information		3.80	0.59	High
1	Recommended from one of the family members	3.36	0.99	5
2	Recommendation from a friend	4.08	0.88	3
3	Recommendation from financial analyst and financial advisor	4.09	0.88	2
4	Auditor opinion	3.91	0.99	4
5	Stock dividends	4.25	0.80	1
Advocate recommendation		3.93	0.56	High
1	Stock market liquidity	3.21	1.06	9
2	Rumours	4.25	0.75	3
3	Expected profit	4.15	0.81	5
4	Insider information	4.07	0.86	7
5	Past stock performance	4.00	0.83	8
6	Information from internet and Credible information from economic and financial cites	4.08	0.85	6

(Survey through questionnaire)

The analysis of sub-dimensions reveals differences in evaluations, with the first dimension, 'Advocate Recommendations,' receiving an average score of 3.93, indicating that professional

advice has less impact but still has high worth. Financial and personal needs, such as investment diversification and market risk perceptions, have a mean value of 3.88, whereas neutral

information has a mean value of 3.78, indicating less influence in decision-making. Investment diversification is considered the most important factor, with a mean value of 3.47–4.14. Expected losses in the local market have a low mean score, indicating that they are not a concern. Company image, an attribute of governance quality, has a good mean value, while social responsibility has a lower mean score, emphasizing less emphasis.

Investors make complex and diverse investment decisions, ranking and ordering the most significant factors according to their place in an investor hierarchy. The module “Accounting Information” received the highest average score, indicating that financial data plays a vital role in investment decision-making. Investors consider personal advice, financial objectives, and economic factors when making investment decisions. The classification of levels, such as “Advocate Recommendations,” “Financial and Personal Needs,” and “Neutral Information,” reveals different preferences about the significance of “Investment Diversification” or how an investor might evaluate a “Company Image.” We

should apply these multiple angles in practice to shape more informed investment strategies, enhance corporate governance practices, and drive social responsibility initiatives, as they enhance our understanding of financial behavior as shown in Table 7 below.

The study reveals a significant disparity between financial knowledge and skills among respondents. The average score for financial knowledge is 12.32 out of 20, suggesting a good understanding of money matters but potentially lacking in critical decision-making. This suggests that most people have some knowledge but may not be equipped to handle the advanced complexity of today’s financial environment.

On the other hand, the average score for financial skills is 4.71 out of 7, indicating a general ability to apply financial knowledge to everyday life. This indicates expertise in managing financial affairs and making informed decisions. However, the higher assessment for skills suggests that individuals might be more competent at applying than theoretical appreciation.

TABLE 7 Mean, standard deviation, importance and ranking of financial knowledge & financial skills.

Item	Full mark	Mean	Std. deviation	Degree of approval
Financial knowledge	20	12.32	3.41	Medium
Financial skills	7	4.71	1.95	High

(Survey through questionnaire)

The overlap of these two areas raises questions about how knowledge and skills relate to each other in the financial domain. We can nurture practical skills in finance independently from theoretical understanding, depending on factors like experiential learning, interest levels, and the relevance of managing personal finances with deep theoretical knowledge.

An inadequate level of financial knowledge and skills sparks debates on the efficacy of financial education programs. It is essential to ensure that financial education programs include practical skills to enable easy application in real-life situations. Continuous financial literacy throughout a person's life is also critical for financial wellness.

In the increasingly involved financial industry and challenging personal decision-making, developing an individual's financial knowledge and skills is essential for financial wellness. To fully understand and implement financial abilities, we need new teaching methods that combine

theoretical learning with hands-on work, such as simulations or business examples as shown in Table 8 below. Table 8 provides a comprehensive analysis of people's financial behavior and attitudes toward self-perception in financial decision-making. Research aiming at understanding the psychological determinants of financial behavior thrives on the duality between responsible financial management and excessive confidence in financial decision-making.

Higher scores indicate that participants possess considerable amounts of financial prudence, reflecting a greater degree of such quality. These behaviors, with their historical basis in financial wisdom, indicate that people appreciate the need to be responsible in spending and recognize the risks associated with capricious transactions or wasteful investments. However, the apprehension about using credit cards and taking loans indicates a complicated perspective on indebtedness.

TABLE 8 Mean and standard deviation for Items domain “financial behavior and overconfidence decision”.

No	Statement	Mean	Std. deviation	Rank	Degree
3	I read contracts before I sign them	4.78	0.64	1	High
7	I feel it is important to save part of my salary each month	4.71	0.82	2	High
1	I pay all my expenses before I buy new things	4.62	0.86	3	High
2	I shop around and compare prices before I buy anything	4.23	0.85	4	High
9	I am afraid of taking loans	3.90	1.14	5	High
6	I use automatic payment to pay my bills and buy my necessities	3.88	1.03	6	High
8	I am afraid of using credit cards	3.10	1.19	7	Medium
4	When I buy anything, I do not care if it is a want or a need	3.03	1.22	8	Medium
5	When I take a loan, the only thing I think of is how to spend it	2.9	1.24	9	Medium
“Behavior”		3.81	0.48	High	

1	My investment decisions are more accurate than my friends	3.90	0.93	2
2	I can predict the trend of the market	3.32	0.99	6
3	My expectations align with what happens in the market	3.50	0.85	4
4	The investment plan I make is the reason for my investment returns	3.78	0.78	3
5	I am confident that I can finish any homework in less time	3.94	0.80	1
6	My returns always outdo the market	3.45	0.91	5
7	I over trade in the market	2.87	1.11	7
“Overconfidence decisions”		3.55	0.60	Medium

(Survey through questionnaire)

Overconfident determinations shed light on the psychological depth of financial decision-making. High scores indicate a belief in completing tasks more efficiently than others and a confidence in investment decisions surpassing those of peers. This feature may facilitate an attempt at action but can also play a negative role by underestimating risks and overestimating one's ability to influence financial results.

For successful financial education, it is necessary to pay attention not only to the formation of knowledge and skills but also to psychological biases, such as excessive self-confidence. This information can help individuals recognize these biases and improve decision-making by taking into account both the risks and opportunities associated with financial decisions.

Quantitative analysis of investment decisions

The regression equation (econometric model) tries to find the numbers for the connections and interactions between not knowing enough about money, being too sure of yourself, and making bad investment decisions. It does this by providing statistical support for the hypotheses that were put forward at the start of this research, as shown in Table 9 below.

The study presents an econometric model that examines the impact of financial literacy and overconfidence on investment decisions. The model uses numerical methods to provide a detailed understanding of investor behavior. It assesses the direct consequences of these variables and how overconfidence influences the connection between financial literacy and the quality of investment decisions.

The results show that even without financial literacy and overconfidence, there is a baseline level of investment decision-making quality that is positive. This suggests that other factors not accounted for also play a positive role in investment decision-making quality among the target population. Financial literacy has a positive effect on investment decisions by increasing market investment levels, potentially increasing returns, and lowering risk. Overconfidence also shows a significant moderating effect, as it enhances the application of financial knowledge in making investment decisions. This implies that investors who are more confident in their financial acumen tend to make more assertive investment decisions.

The interaction term between financial literacy and overconfidence improves the model considerably, suggesting that when combined,

both independent variables have an added effect on investment decision quality. The results are statistically reliable, with low p -values (below

0.05) showing robust evidence that the null hypothesis is incorrect.

TABLE 9 Regression equation (econometric model).

Variable	Coefficient (β)	Standard error	t -Statistic	P -value	Comment
Constant (β_0)	2.988	0.180	16.584	<0.001	Highly significant
Financial literacy (β_1)	0.046	0.015	3.178	0.002	Significant positive effect
Overconfidence (β_2)	0.468	—	6.598	<0.001	Significant positive moderator
Interaction term (β_3)	—	—	—	—	Enhances the model significantly

TABLE 10 Result of (one sample T -test) to the study sample members' estimates of the financial knowledge.

Hypothesis	Mean	S.D	Degree	T	Sig.	Result
The investors' financial knowledge is weak	12.24	3.41	Medium	19.832	0.00	Reject

(Survey through questionnaire)

The study contributes to the knowledge base in behavioral finance and helps provide strategies for effective financial education programs and policy reforms to help investors make better investment choices

Findings

This part, testing the study hypotheses

H1: the investors exhibit a moderate level of financial literacy, as measured by their knowledge and skills in managing personal finances and making informed investment decisions.

The first hypothesis was tested by applying the one-sample T -test to the study sample members' estimates of financial knowledge, in addition to the test as shown in Table 10 below.

The study uses a one-sample T -test to examine the financial literacy of investors, revealing that

their understanding of financial concepts is moderate. This contradicts the initial hypothesis that investors lack financial knowledge, as the statistical analysis shows that they possess a solid grasp of financial concepts beyond mere familiarity. This contradicts preconceived notions about financial literacy levels in emerging markets or regions facing economic and political challenges.

The findings suggest that even in such contexts, investors can attain a commendable degree of financial literacy, which is crucial for well-informed investment choices. This discovery underscores the value of tailored initiatives aimed at promoting financial education and raising awareness. Interventions in education could focus on closing specific gaps in knowledge, leading to an overall elevation of financial literacy.

The intermediate degree of financial expertise, which exceeds the minimum requirement for competence, highlights the diversity among investors and the impact of different levels of comprehension in finance on investment behaviors. Acknowledging this diversity is crucial for creating financial education initiatives and formulating policies that facilitate well-informed financial decision-making.

This will provide valuable insight into how to guide investors in making decisions that go hand in hand with their financial objectives and the overall economic landscape of the region.

H2: Increased financial literacy significantly enhances the quality of investment decisions among investors.

To test this hypothesis, the regression was applied. Table 11 shows that.

The study reveals a significant correlation between financial literacy and the quality of investment decisions made by the investors. The positive beta coefficient ($\beta = 0.257$) and t -test ($T = 3.167$) indicate a statistically significant relationship between financial literacy and the quality of investment decisions. Financial literacy

can explain a modest amount of variance in decision quality, as indicated by the R^2 value of 0.066, but it remains a critical step toward understanding this process.

The research findings confirm the importance of financial education literature, suggesting that well-informed investors make sound and consistent decisions with long-term goals.

We could apply these relationships in practice, highlighting the importance of promoting financial literacy through specialized financial education programs for investors. Financial literacy has a positive effect on decision-making quality, leading to better and more informed investment decisions.

The results support the inclusion of financial education in a larger context of economic development policies, allowing for the development of a more dynamic, adaptive, and knowledgeable investor base. However, the R^2 value shows that financial literacy only accounts for about 6.6% of the variance in investment decision quality, raising questions about the complexity of investment decisions.

TABLE 11 Results of Regression for the impact of financial literacy on investment decision quality.

Independent variable	Unstandardized coefficients		Standardized coefficients		R	R^2	F	Sig	Result
	B	Std. error	Beta	T					
Constant	2.899	0.182		16.585	0.257	0.066	10.008	0.003	Accept
Financial literacy (financial knowledge)	0.047	0.017	0.257	3.167					

(Survey

through

questionnaire)

TABLE 12 Results for (independent samples *T*-test) on financial literacy of the study sample members about to gender.

Gender	Mean	S.D	<i>T</i>	DF	Sig.
Male	12.85	3.68	1.612	147	0.13
Female	11.75	3.35			

(Survey through questionnaire)

Future research should explore additional variables, such as psychological factors, market belief, and individual investor attributes, to clarify the complexity of determinants in investment decision-making. A microanalysis would facilitate more bespoke educational interventions focusing on the most crucial components of financial literacy.

The regression analysis not only establishes the positive association of financial literacy with investment decision quality among investors but also considers the interaction of influencing factors. This underscores the importance of financial education and the need for multifaceted intervention programs to improve investment behaviors, contributing to society's prosperity.

H3: Demographic factors, including gender, age, academic qualification, specialization, and investment experience, significantly influence the financial literacy levels among investors.

Researcher applied the analysis of variance (Independent Samples *T*-Test) on the financial literacy of the study sample members about gender and (ANOVA) on the financial literacy of the study sample members due to the variables (Academic Degree, Specialization, Experience in Stock Market, Job Title, Income), and the results are presented in Table 12 below.

The study investigates demographic factors affecting the financial literacy of investors, focusing on gender disparities. There was no significant difference in financial literacy levels between males and females, with a *p*-value of 0.11 and a *T*-value of 1.612. This suggests that gender is not solely responsible for determining a person's level of financial literacy.

The findings suggest that there are no notable gender-based gaps in financial literacy, which could be due to the success of achieving gender equality in education and participation in economic activities in the society. However, any inequalities regarding financial literacy may go unnoticed due to more influential determinants of financial education and exposure, such as accessibility to resources, quality of education, or socio-cultural norms.

The results provide a wider field for analyzing demographic variables, but there is an absence of gender-based inequalities in this area, calling for research into other demographic features such as age, academic level, investment background, occupational status, and income. This finding has a significant influence on financial education programs and policymaking, suggesting that gender-neutral financial education methodologies can be useful. However, it is crucial to ensure equal access to financial education among all individuals, regardless of their sex, to maintain or achieve equality. This finding is of interest to investigators who want to deepen their understanding of the difference between financial literacy in various demographic divisions. Future research should investigate qualitative elements of financial education, including personal experiences, cultural influences, and access to financial resources, to shed light on factors that hinder or help improve financial awareness among people from varied backgrounds as shown in Table 13

Using ANOVA, the study investigated the impact of demographic factors on financial literacy among investors. The results showed that none

of these factors had a statistically significant effect on financial literacy levels, challenging the common assumption that demographic components are determinants of low financial literacy. This suggests that financial literacy programs may be more accessible and effective for different demographic groups, possibly due to cultural or social norms or resources that overcome traditional demographic barriers.

The fact that financial literacy is pretty much the same across all demographic groups could mean that outside factors, like the economy, political unrest, and social norms, have a bigger impact on financial literacy than certain demographic factors. In areas with substantial external influences, the demand for financial expertise is likely to be highly generalized, leading to an unvarying practice and attainment of financial knowledge and skills.

The findings are significant for financial education policy and program structure, as there

are no significant differences between groups' means on any financial literacy scales, indicating that specific programs can be helpful. Initiatives that address common needs and reach a wider population may also be effective. These results emphasize the need for ensuring access to financial education and information across different populations, such as ages and socio-economic status.

The results do not support the third hypothesis, but they provide new avenues for future study, such as understanding the development and maintenance of financial literacy across various demographics, including attitudes toward finance, psychological traits, or specific educational experiences.

H4: Overconfidence acts as a positive moderator in the relationship between financial literacy and investment decision, enhancing the application of financial knowledge in investment scenarios.

TABLE 13 Results for (ANOVA) on financial literacy of the study sample members about to (academic degree, specialization, experience in stock market, job title, income).

Group variables	Category	Mean	S.D	Source of variation	Sum squares	DF	Mean square	F	Sig.
Age	<30	12.90	3.56	Between groups	13.942	2	4.623	0.423	0.754
	30–40 years	11.95	3.12	Within groups	1,658.780	143	11.684		
	41–50 years	11.95	3.94	Total	1,687.135	145			
	more than 50 years	11.15	4.17						
Academic degree	High school	10.20	5.29	Between groups	29.985	3	10.324	0.898	0.451
	Diploma	10.80	3.45	Within groups	1,653.297	142	11.578		
	Bachelor degree	12.75	3.02	Total	1,667.082	145			
	Master or Ph.D.	12.65	3.05						

Specialization	Finance and banking	12.75	3.59	Between groups	17.468	3	8.665	0.778	0.465
	Business and economics	11.74	3.48	Within groups	1,645.840	142	11.614		
	Other field	13.00	-	Total	1,662.026	145			
Experience in stock market	<5 years	12.20	3.32	Between groups	7.498	2	3.825	0.343	0.732
	between 6 and 9 years	12.28	3.30	Within groups	1,664.579	143	11.670		
	10 years and above	12.90	4.49	Total	1,672.082	145			
Job title	Employee	11.98	4.20	Between groups	27.689	3	8.730	0.799	0.498
	Professional	12.20	2.39	Within groups	1,654.389	142	11.613		
	Business	11.90	3.77	Total	1,671.428	145			
	Other	11.99	3.07						
Income	Less than Rs 1 lakhs	12.25	3.17	Between groups	9.125	3	3.016	0.261	0.859
	Rs 1lakh -2 lakhs	12.57	3.05	Within groups	1,659.532	142	11.698		
	Rs 2 lakhs – 3 lakhs	12.52	3.69	Total	1,671.643	145			
	Above 3 lakhs	12.58	4.70						

(Survey through questionnaire)

To test this hypothesis, hierarchical regression analysis was used to test the role of overconfidence as a moderating variable in the relationship between financial literacy and investment decisions. Table 14 shows this.

The hierarchical regression analysis reveals that financial literacy positively influences the quality of investment decisions, with at least 6.5% of fluctuations in quality among investors due to financial literacy. However, including overconfidence in the regression analysis significantly changes how people perceive this relationship. Upon considering overconfidence, the R^2 value increases to 0.282, indicating that this variable significantly contributes to the model's explanation. This sudden increase of 21.7% in R^2

after including overconfidence signals its strong effect on how financial literacy relates to investment decisions.

One can view overconfidence as a cognitive bias that amplifies the application of knowledge in decision-making. High levels of confidence in financial analysis and investment choice might act as a booster for more successful application of financial knowledge while making investment decisions. However, this behavior also allows potential risks of investors underestimating or overstating their comprehension of complex financial instruments.

The positive interaction between overconfidence and financial literacy has serious implications for

finance and financial advice. Financial literacy programs should focus on imparting knowledge and influencing investors' overconfidence to prevent them from overestimating their financial abilities. These results highlight the importance of a tailored strategy in financial advice, where investment decisions are guided by advisors' analysis of investors' confidence levels along with their knowledge and skills in finance.

This research paves the way for further investigations to understand which psychological characteristics have been intervening in reducing the impact of financial literacy on investment decision-making. Additional research could determine the level of overconfidence that is

beneficial enough to exploit gains resulting from financial literacy in investment decisions without exposing individuals to dangerous forms of risk-taking behaviors.

The findings from this research provide a comprehensive examination of the factors influencing investment decisions among investors, with a particular focus on the role of financial literacy and overconfidence. By analyzing the demographic and background profiles of participants, the study has met its primary objectives, which were to assess the level of financial literacy and to determine the factors that significantly affect investment decisions within this unique market context.

TABLE 14 Overconfidence as a moderating variable in relationship between financial literacy and investment decisions.

Model	Predictor	Beta	T	R	R ²	R ²	F	F	Sig.
First step	Financial literacy	0.244	3.163	0.354	0.056	–	12.422	–	0.003
Second step	Financial literacy	0.231	3.125	0.574	0.195	0.217	25.794	42.908	0.001
	Overconfidence	0.476	6.470						

(Survey through questionnaire)

Achievement of objective 1: assessing financial literacy

The research effectively evaluated the knowledge of investors, using a questionnaire. Findings indicate that although there is some level of literacy among participants it differs based on demographic factors. Investors (representing 63.3% of the sample) generally possess an educational background but often lack expertise, in finance and banking. It seems that although individuals may have a foundation, in knowledge to some extent; there appears to be a lack of proficiency in financial abilities that are essential, for making well informed investment choices. This discovery corresponds with research

emphasizing the significance of tailored learning (referencing Safari et al., 2021).

The Analysis of the questionnaire feedback reveals that financial understanding (measured by Cronbach's α at 0.706) and financial abilities (measured by Cronbach's α at 0.705) show levels of reliability when compared to other aspects such, as advocate recommendations (measured by Cronbach's α at 0.88).

This indicates that even though investors heavily depend on sources like advocates or company reputation for information their own financial knowledge is still in the stage of development. This underscores the necessity, for initiatives tailored specifically for this group.

Achievement of objective 2: identifying key factors affecting investment decisions

The study aimed to identify the key factors that influence investment decisions, and this objective has been achieved by analyzing the participants' responses to a five-point Likert scale questionnaire. The results clearly show that a combination of financial and personal needs, company image, and advocate recommendations play significant roles in shaping investment decisions.

Advocate recommendations emerged as the most influential factor, with the highest internal consistency ($\alpha = 0.88$). This suggests that many investors rely heavily on the advice of trusted individuals or financial advisors when making investment decisions.

Company image ($\alpha = 0.81$) and **accounting information** ($\alpha = 0.78$) also scored highly, indicating that investors consider reputational and financial performance indicators when deciding where to allocate their resources.

The use of a five-point Likert scale has enabled the study to quantify the level of agreement with various decision-making factors, offering insights into the attitudes and preferences of investors. For example, higher scores in areas like company image and advocate recommendations suggest a greater reliance on external signals rather than personal financial analysis. This underscores the need for improving individual financial literacy so that investors can make more independent and informed decisions.

Achievement of objective 3: examining overconfidence as a moderator

The study aimed to explore the impact of overconfidence, on the link between literacy and investment choices. Through the analysis conducted with a confidence level of 0.785, it was evident that overconfidence plays a role in shaping how individuals utilize their expertise. Investors who exhibit overconfidence often have a sense of their grasp, on instruments resulting in decisions that may carry higher risks.

The study supports the idea put forth by Kahneman (2012) as the findings of Weixiang et al. (2022) indicating that being too confident can worsen financial errors even among those, with a good understanding of finance concepts. The research emphasizes that while certain investors may be knowledgeable about finance, to some extent; excessive confidence can skew their decision-making abilities and prompt them to take on investments without a grasp of the potential risks involved. This emphasizes how intricate the connection is, between understanding finances and making investment choices; it stresses the importance of tackling biases like self-assurance, in financial education programs.

Conclusion and implications

This study makes a significant theoretical contribution to the literature on financial literacy and behavioral finance, particularly in the context of Indian capital market. It widens the scope of financial literacy by examining the interplay relationship between financial knowledge, financial skills, financial attitudes, financial behavior providing a more comprehensive understanding of how these interconnected elements impact investment decisions. Overconfidence emerged as a significant behavioral factor influencing investors' decisions. When individuals overestimate their ability to predict market movements or select winning assets, they are more prone to excessive trading and insufficient diversification—both of which can magnify losses. This bias underscores the necessity for financial education programs to incorporate not only content-focused modules (e.g., budgeting, risk assessment, portfolio management) but also sessions aimed at enhancing self-awareness around cognitive biases.

Furthermore, this research offers unique insights into financial literacy in a developing market, where financial education has been under explored, thereby enriching the literature by incorporating regional and cultural factors that shape investment decisions. The study also

considers the role of demographic factors in influencing both financial literacy and investment behavior, adding a layer of complexity to the understanding of decision-making processes. Overall, the study provides a holistic view of financial literacy as a dynamic construct shaped by cognitive, psychological, and contextual variables, offering valuable insights for designing more targeted financial education programs and policies in emerging markets.

The findings of this study have important implications for both policymakers and financial educators. There is a clear need to formally integrate financial literacy programs into secondary and higher education, with content tailored to local economic and financial contexts. Financial institutions and brokerage firms should play a role in offering accessible resources and

workshops to enhance investors' understanding of financial concepts risk management and behavior biases which can skew investment decision. Financial regulators should also consider implementing clearer product disclosures and automated behavioral prompts on trading platforms to help mitigate impulsive, bias-driven decisions. Public campaigns, in collaboration with ministries, universities, media, and NGOs, could further promote responsible investing and financial awareness through culturally relevant messaging. Finally, establishing a dedicated financial behavior research unit in collaboration with universities and regulatory bodies would enable continuous monitoring of investor trends and support the development of evidence-based financial education initiatives.

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