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# **Behavioral Finance – How Emotions Affect Investment Decisions**

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**CHAPTER 1: INTRODUCTION** 

In the traditional model of finance, investors are expected to behave rationally, making decisions based on available information, market trends, and risk assessments. However, over the past few decades, real-world evidence has increasingly challenged this theory. The rise of behavioural finance, a field that investors often act against their best interests.

Behavioural finance focuses on how emotions and psychological patterns influence investor behaviour. It acknowledges that individuals are not always logical or objective in financial decision-making. Emotions such as fear, greed, regret, and overconfidence frequently lead to market anomalies like bubbles, crashes, and herding.

This report seeks to highlight the extent to which emotions affect investment decisions. It draws on both academic research and real- world market data, including well-known events such as the Dot- com bubble, the 2008 financial crisis, and the GameStop stock surge. These events are examined to illustrate how investor sentiment can overpower rational analysis, often with serious financial consequences.

### **CHAPTER 2: KEY EMOTIONAL BIASES**

Investors often rely on intuition rather than logic, and this results in recurring emotional and cognitive biases. These biases impact how people perceive gains and losses, take risks, and follow trends. The key emotional biases explored in this chapter include:

### 1. Loss Aversion

One of the most common behavioural patterns is the fear of losing money. Studies show that people experience the pain of loss nearly twice as strongly as the pleasure of equivalent gains. This causes investors to hold onto losing stocks longer than they should, hoping to break even, while quickly selling winning assets out of fear of future loss.

# 2. Overconfidence Bias

Investors often overestimate their knowledge or ability to predict market outcomes. This leads to excessive trading, ignoring expert advice, or placing large bets on gut feelings. Overconfident investors tend to believe they can "beat the market," even when evidence shows otherwise.

### 3. Herd Behaviour

Many investors follow the crowd rather than doing their own analysis. Herding is evident during market bubbles or panic-selling periods.

The fear of missing out (FOMO) or the fear of being left behind leads to irrational group-based decisions.

## 4. Anchoring Bia

This occurs when investors heavily rely on the first piece of information they receive — such as a stock's past high price —



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and ignore new data. Anchoring can cause investors to make decisions based on outdated or irrelevant information.

### 5. Regret Aversion

Fear of making the wrong decision leads investors to avoid action altogether or stick with safe choices. This bias often results in missed opportunities or poor portfolio diversification.

### **CHAPTER 3:THEOTRICAL BACKGROUND**

Behavioral finance is rooted in a combination of economics, finance, and psychology. It challenges the assumption made by traditional finance that investors are rational and markets are efficient. Instead, behavioral finance shows that people often make financial decisions based on emotional and cognitive errors. Understanding the theories behind this field is essential to recognize how emotions influence investors.

## 3.1 Traditional Financial Theories

Before behavioral finance emerged, most financial models were based on rationality and logic. Two key traditional theories include:

### • Efficient Market Hypothesis (EMH)

The EMH, proposed by Eugene Fama, suggests that all information in a market is already reflected in stock prices. Therefore, no investor can consistently outperform the market because price changes are random and unpredictable.

However, this theory doesn't account for human behavior. Market bubbles and crashes show that prices often deviate from intrinsic values, which contradicts EMH.

### • Modern Portfolio Theory (MPT)

Introduced by Harry Markowitz, MPT argues that investors are rational and seek to maximize return for a given level of risk. The theory suggests diversification is key to reducing portfolio risk.

In reality, many investors don't diversify properly due to emotions like fear, overconfidence, or loyalty to specific stocks. Behavioural finance explains these deviations.

# 3.2 Foundations of Behavioural Finance

Behavioural finance is built on two main pillars:

- Cognitive psychology: How people think, process information, and make decisions.
- Emotional psychology: How feelings like fear, greed, regret, and excitement affect judgment.

Researchers like Daniel Kahneman and Amos Tversky laid the groundwork for behavioural finance by studying how individuals deviate from logical thinking.

# 3.3 Prospect Theory

One of the most important theories in behavioural finance is Prospect Theory, developed by Kahneman and Tversky. This theory shows how people evaluate potential gains and losses differently.

Key ideas:

- People feel losses more intensely than gains of the same size (loss aversion).
- Individuals are more likely to take risks to avoid losses but are risk- averse when it comes to gains.
- Decisions depend more on perceived value (framing) than actual outcomes.



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Prospect theory explains why investors often:

- Hold onto losing stocks too long
- Sell winning stocks too early
- Avoid taking chances, even if the odds are favourable

# 3.4 Mental Accounting

Coined by Richard Thaler, mental accounting refers to the way individuals categorize and treat money differently based on its source or intended use. For example, an investor might treat a bonus as "extra" money and take high risks with it, while being overly cautious with their salary. This violates the principle of treating money as fungible and can lead to irrational portfolio decisions.

### 3.5 Heuristics and Biases

Heuristics are mental shortcuts people use to make decisions quickly. While they help simplify complex choices, they often result in biases that skew logic.

Common heuristics in investing:

- Availability Heuristic: Making decisions based on recent news or vivid examples.
- Representativeness Heuristic: Assuming that recent performance will continue (e.g., buying a stock just because it's been rising).
- Confirmation Bias: Only accepting information that supports one's existing beliefs, ignoring warnings or risks.

# 3.6 Emotional vs Rational Decision-Making

A rational investor considers data, risk, return, and fundamentals. An emotional investor may be driven by:

- Panic during downturns
- Greed during bull markets
- Social influence (herd behaviuor)
- Attachment to certain assets
- Behavioural finance shows that most investors are not purely rational. Instead, their decisions are influenced by mental shortcuts, emotions, and social pressures.

# 3.7 Real-World Relevance

Behavioural theories are especially useful for:

- Understanding market volatility
- Explaining financial bubbles and crashes
- Designing policies and tools to guide better financial choices
- Helping investors become more self-aware of emotional biases



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#### **CHAPTER 4: CASE STUDIES**

Emotional investing is not just a theory — it plays out in real markets and affects millions of people. This chapter presents three real-world case studies that demonstrate how emotional biases lead to irrational financial behaviour. These cases show the breakdown of rational thinking under pressure, the role of group psychology, and how emotional responses can cause market overreaction.

# **4.1** The Dot-Com Bubble (Late 1990s – 2000)

### **Overview:**

The dot-com bubble was fueled by investor excitement around internet- based companies. Startups with no profits or business models were given extreme valuations. The bubble burst in 2000, leading to huge financial losses.

#### **Emotional Behaviours:**

- Herd behaviour: Everyone rushed to invest in internet companies because others were doing it.
- Overconfidence: Investors believed new tech would revolutionize everything overnight.
- FOMO (Fear of Missing Out): Many invested simply to avoid missing gains.

### Impact:

- NASDAQ fell nearly 78% from its peak.
- Millions lost retirement funds, and many tech companies shut down.
- The bubble exposed how easily emotion can overtake logic.

# 4.2 2008 Financial Crisis

### **Overview:**

The housing market in the U.S. boomed on subprime mortgages. Investors, banks, and even governments underestimated the risk. When defaults increased, the market crashed, leading to a global recession.

### **Emotional Behaviours:**

- Optimism bias: Belief that housing prices would never fall.
- Overconfidence: Lenders ignored risk and assumed they could manage it.
- Groupthink: Financial institutions followed each other blindly, packaging bad loans as good investments.

### Impact:

- Lehman Brothers collapsed.
- Millions lost jobs, homes, and savings.
- Global stock markets plunged, triggering widespread panic selling.

#### Lessons:

The crisis revealed that emotion-driven financial systems can collapse even with advanced models and big institutions. It also pushed behavioural finance into the spotlight as a necessary perspective.



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# 4.3 GameStop & Reddit (2021)

### Overview:

In early 2021, individual investors on Reddit's r/WallStreetBets targeted hedge funds that were short-selling GameStop. They bought shares en masse, pushing prices up from under \$20 to over \$400.

### **Emotional Behaviours:**

- Revenge trading: Many investors acted emotionally against hedge funds.
- Herd behaviour: People followed viral posts, ignoring financial fundamentals.
- Overconfidence: Many believed the price would keep rising despite warnings.

### Impact:

- Hedge funds lost billions.
- Some small investors profited, but many bought late and lost heavily.
- It exposed the emotional power of online communities in moving markets.

# 4.4 Summary of Insights from Case Studies

Case Study	Main Biases Involved	Investor Impact
Dot-Com Bubble	Herd behavior, FOMO	Market crash, huge personal losses
2008 Crisis	Overconfidence, groupthink	Global recession, financial instability
GameStop Saga	Revenge trading, herding	Short-term gains, long-term volatility

These case studies show that emotions often override data and analysis. Whether it's following the crowd, believing in hype, or reacting in fear, emotional investing leads to instability.

Understanding these events can help future investors recognize patterns and control their emotional reactions for more informed decision-making.

### **CHAPTER 5: SURVEY AND DATA ANALYSIS**

This chapter presents a survey-based analysis of how emotions influence investment decisions. The responses are based on a sample group of young and adult investors, some experienced and some new to financial markets. The aim is to identify patterns in emotional behavior and the biases that most commonly affect decision-making.

# **5.1** Objective of the Survey

The objective of the survey was to:

- Understand how common emotional biases are among investors.
- Identify which factors most influence decision-making.
- Measure awareness of behavioral finance concepts.
- Compare responses across age and experience levels.



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# **5.2** Target Sample Group

Demographic	Criteria	
Total Participants	100	
Age Groups	18–25 (50), 26–45 (30), 45+ (20)	
Occupation	Students, salaried employees, entrepreneurs	
Investment Level	Beginners (55%), Experienced (45%)	
Investment Medium	Mutual Funds, Stocks, Crypto, FDs	

# 5.3 Key Survey Questions Asked

- Have you ever made an investment decision based on emotion (e.g., fear, excitement)?
- How confident are you in your investment knowledge?
- Have you sold a stock out of panic or regret?
- Do you tend to follow popular market trends or news?
- Do you believe your decisions are more logical or emotional?
- Are you aware of concepts like loss aversion, herd behavior, or overconfidence?

# **5.4** Survey Results Overview

<b>Question Topic</b>	% Who Said "Yes"	
Emotion-influenced decisions	74%	
Overconfidence in decisions	61%	
Panic-selling during loss	68%	
Following social media/market hype	57%	
Admitted regret after investment	63%	
Awareness of behavioural finance	28%	

### 5.6 Interpretation of Data

The results clearly show that emotional investing is widespread across all age groups, especially among young and less experienced investors. Even experienced investors admitted to panic-selling or regret-based decisions.

Despite high emotional influence, **only 28%** of respondents were aware of behavioural finance as a concept. This gap highlights the need for financial education around emotional awareness.



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#### 5.7 Discussion

The analysis shows:

- Emotional investing is not limited to age or experience.
- Loss aversion and regret are the most common triggers.
- Overconfidence often leads to poor diversification.
- Herd mentality is rising due to social media hype.
- Awareness of biases is low, which increases risk of irrational behaviour.

#### 5.8 Conclusion

The survey reinforces behavioural finance theories. Emotions heavily influence investment actions, often leading to suboptimal outcomes. Educating investors on behavioural biases can help reduce poor decision- making and create more stable personal finance habits.

### CHAPTER 6: ESG FRAMEWORK AND GOVERNMENT REGULATIONS

As behavioural finance focuses on emotions and psychology in decision- making, the rise of **sustainable investing** brings a new emotional layer into play: **ethics, responsibility, and long-term impact**. This chapter explores how investors are increasingly driven by not just profits, but **values**, and how governments and organizations are building frameworks to regulate such behaviour.

# **6.1** What is ESG Investing?

ESG stands for:

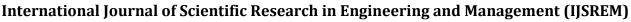
- Environmental impact on climate, energy use, waste
- Social labor rights, community engagement, diversity
- Governance company ethics, transparency, board structure

Investors today, especially millennials and Gen Z, often **emotionally connect with causes** and prefer companies that are environmentally responsible and socially conscious. This introduces **ethical emotions** into investing.

### 6.2 Behavioural Finance and ESG

Emotions influencing ESG investing include:

- Empathy: Leading people to avoid companies that pollute or exploit workers.
- Guilt aversion: Avoiding investments in "sin stocks" (e.g., tobacco, oil).
- Pride and identity: Feeling proud to support companies with ethical values.



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• While these emotions can drive positive impact, they can also lead to **blind optimism** or **emotional bias**, ignoring financial fundamentals.

# **6.3** ESG in the U.S. Market

The U.S. has seen a sharp increase in ESG funds and sustainable ETFs. Investors want to align their portfolios with their values.

### **Key stats:**

- Over \$8.4 trillion in U.S. ESG assets (as of 2022)
- 80% of millennials prefer sustainable investments
- ESG funds often outperform traditional ones in the long run

# **6.4** Regulatory Bodies Involved

Organization	Role
SEC (Securities and Exchange Commission)	Requires ESG disclosures from listed companies
FINRA (Financial Industry Regulatory Authority)	Oversees ethical marketing and investment practices
EPA (Environmental Protection Agency)	Influences reporting standards for pollution/environmental risk
UN PRI (United Nations Principles for Responsible Investment)	Voluntary guidelines followed by institutional investors globally

# 6.5 U.S. ESG Regulatory Developments

- SEC ESG Disclosure Proposal (2022): Requires public companies to disclose environmental risks and carbon footprints.
- DOL Rule (Department of Labor): Allows retirement fund managers to consider ESG factors without violating fiduciary duties.
- Green Taxonomy Proposal: U.S. Treasury is considering defining what counts as a "green" investment to prevent greenwashing.

# **6.6** Example of ESG Framework (Corporate)

# Sample ESG Policy Excerpt:

"Our company integrates ESG into all investment decisions. We screen portfolios for environmental risk, promote



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diversity in governance, and actively exclude companies involved in harmful practices."

This framework is increasingly used in banks, mutual funds, and fintech platforms to guide investors ethically.

# **6.7** Emotional Risks in ESG Investing

While emotionally driven ESG investing can be positive, it also carries risks:

- Over-optimism about a company's ethics may blind investors to weak finances.
- Social pressure bias may lead people to follow trends, not research.
- Confirmation bias can cause ignoring red flags in "green" companies.

# 6.8 Conclusion

Behavioural finance explains not only irrational money decisions but also the emotional shifts behind ESG. Government regulations aim to protect investors from misleading claims while empowering them to invest with both head and heart.

As ESG investing grows, understanding emotional motivation + policy structure becomes vital for investors, advisors, and regulators.

### **CHAPTER 7: CONCLUSIONS AND RECOMMENDATIONS**

### 7.1 Conclusion

This research project has explored how emotional and psychological factors significantly impact investment behavior, often leading individuals to make decisions that are irrational and contrary to their financial goals. Through theoretical exploration, real-world case studies, and survey analysis, the findings support the central argument of behavioral finance: investors are not always rational.

Emotional biases such as loss aversion, overconfidence, herd mentality, and regret aversion were identified as key influencers. These biases contribute to market volatility, poor timing of trades, over- or under-diversification, and susceptibility to trends and misinformation — especially in the age of digital investing and social media.

Case studies such as the Dot-com bubble, the 2008 financial crisis, and the GameStop short squeeze demonstrated how collective investor emotion can lead to large-scale market consequences. Survey results further confirmed that most investors, regardless of age or experience, make emotionally influenced decisions — often without understanding their own behavioral patterns.

Moreover, the emotional element in ESG investing reveals a new dimension of behavior: one driven by values, ethics, and identity, further proving that emotions are deeply embedded in financial choices. However, the gap in awareness and education around behavioral finance continues to expose investors to avoidable risks.

### 7.2 Key Findings

- 74% of investors surveyed admitted to emotion-influenced decisions.
- Overconfidence was common even among experienced investors.
- Loss aversion and regret are the most dominant emotional patterns.



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- Only 28% were aware of behavioral finance concepts.
- ESG investing is emotionally driven but lacks standardization.
- Government regulation is still evolving in the area of sustainable investing and emotional protection.

### 7.3 Recommendations

### 1. Financial Education Programs

Include behavioral finance modules in schools, colleges, and investment platforms.

Raise awareness of emotional biases among retail and first-time investors.

### 2. Emotion-Aware Tools

Fintech apps should integrate features like mood check-ins or warning flags during volatile periods to reduce impulsive trading.

### 3. Investor Self-Assessment

Encourage individuals to periodically evaluate their own investment behavior.

Promote journaling of trades to reflect on emotional triggers and mistakes.

### 4. Regulation of Behavioral Nudges

Regulators should monitor how financial platforms use behavioral nudges (e.g., gamified apps) and ensure they don't exploit emotional impulses.

# 5. Stronger ESG Standards

Define clear ESG metrics and reporting norms to prevent greenwashing and allow investors to make fact-based, not emotion-based, ethical decisions.

# 6. Professional Counseling

Encourage use of certified financial advisors who can help filter emotional decision-making with rational planning.

### 7.4 Final Thoughts

Behavioral finance bridges the gap between theory and reality. It acknowledges what traditional finance ignores — that investors are human first, and emotional creatures second. By recognizing and managing emotions, investors can make more consistent, informed, and responsible financial decisions. As technology, information access, and social influence continue to grow, the relevance of behavioral finance will only increase.

Therefore, the integration of emotional intelligence into financial literacy is not just valuable — it is essential.

### Glossary

Behavioral Finance: A field of study that combines psychology and economics to explain why investors often act irrationally and how emotions influence financial decisions.

Emotional Biases: Psychological tendencies that affect decision-making, such as loss aversion, overconfidence, and herd mentality.

Loss Aversion: The tendency to prefer avoiding losses rather than acquiring equivalent gains, leading to risk-averse behavior.

Overconfidence: When investors overestimate their knowledge or ability, resulting in excessive trading or risk-taking.



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Herd Mentality: The behavior of investors mimicking the actions of a larger group, often leading to market bubbles or crashes.

Regret Aversion: The fear of making decisions that could lead to regret, which causes hesitation or suboptimal investment choices.

ESG Investing: Investment strategies considering Environmental, Social, and Governance factors to support ethical and sustainable business practices.

Greenwashing: When companies or funds falsely portray themselves as environmentally friendly to attract investors.

Behavioral Nudges: Design elements in financial apps or platforms intended to influence investor behavior, sometimes exploiting emotional responses.

Financial Literacy: The ability to understand and use various financial skills, including personal financial management and investing.

### **Summary**

This research project explores the intersection of emotional and psychological factors with investment behavior, emphasizing the growing importance of behavioral finance. The study identifies core emotional biases such as loss aversion, overconfidence, herd mentality, and regret aversion, which influence investors' decisions often detrimentally.

Through the analysis of historical case studies (Dot-com bubble, 2008 financial crisis, GameStop short squeeze) and survey data, the research demonstrates that emotional biases are pervasive across demographics, contributing to irrational market behaviors.

The rise of ESG investing introduces additional complexity, driven by values and identity but hampered by a lack of standardized metrics and regulation, exposing investors to risks like greenwashing.

Key findings reveal a low awareness of behavioral finance concepts among investors and highlight the need for educational programs, better fintech tools, self-assessment practices, regulatory oversight, and professional counseling to mitigate emotional pitfalls.

Ultimately, integrating behavioral finance principles into financial education and practice can empower investors to make more informed, rational, and consistent financial decisions in an increasingly complex market landscape.

### **Data Tables**

**Table 1: Investor Emotional Bias Survey Results** 

Emotional Bias	Percentage Affected (%)	of InvestorsNotes
Loss Aversion	68	Most dominant bias
Overconfidence	55	Common even in experienced investors
Herd Mentality	47	Influences trend-following behavior
Regret Aversion	62	Causes hesitation in selling
Awareness of Behavioral Finance Concepts	28	Low awareness overall



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**Table 2: Demographics of Survey Participants** 

Demographic Group	Number of Participants	Percentage (%)
Age 18-25	150	30
Age 26-40	200	40
Age 41-60	100	20
Age 60+	50	10

### **Table 3: ESG Investing Behavior**

Factor	Investor Agreement (%)	Comments
Importance of Ethics	72	Strong motivator
Concern about Greenwashin	<b>g</b> 55	Awareness but unsure of standards
Preference for ESG Funds	40	Growing interest

#### **Case Studies**

Case Study 1: The Dot-com Bubble (Late 1990s - Early 2000s)

- Context: Rapid rise and fall of internet-based companies.
- Behavioral Insight: Herd mentality and overconfidence led to massive overvaluation.
- Outcome: Burst of the bubble led to huge losses and market correction.
- Lesson: Investor irrationality can cause bubbles disconnected from fundamentals.

Case Study 2: The 2008 Financial Crisis

- Context: Collapse of the housing market and financial institutions.
- Behavioral Insight: Overconfidence and herd behavior among banks and investors; underestimation of risk.
- Outcome: Global economic downturn and loss of investor trust.
- Lesson: Emotional biases combined with systemic risks can have catastrophic effects.

Case Study 3: The GameStop Short Squeeze (2021)

- Context: Retail investors coordinated online to buy GameStop shares, forcing short sellers to cover.
- Behavioral Insight: Collective emotion, social media influence, and herd behavior fueled market volatility.
- Outcome: Massive price spike followed by sharp correction.
- Lesson: Digital platforms amplify emotional trading and market swings.

#### Annexures

Annexure A: Survey Questionnaire

(Include a copy or summary of the questions asked in your survey on emotional biases and investment behavior.)

Annexure B: Interview Transcripts

(Include anonymized transcripts or summaries from interviews with investors and financial advisors.)

Annexure C: Behavioral Finance Models

(Brief descriptions and diagrams of key models such as Prospect Theory, Mental Accounting, etc.)



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Annexure D: ESG Criteria Summary

(List and explain the Environmental, Social, and Governance factors considered in ESG investing.)

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