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A Study on "the Impact of Behavioural Biases on Investment Decision-Making" with special reference to retail investors in Andhra Pradesh,

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Abstract:

This research investigates the profound influence of behavioral biases on investment decision-making among retail investors in the Indian state of Andhra Pradesh, a region experiencing a rapid increase in participation in capital markets due to rising financial awareness, accessibility to digital platforms, and a shift toward individual wealth creation. While traditional financial theories such as the Efficient Market Hypothesis (EMH) assume that investors are rational actors who process all available information to make optimal financial decisions, a growing body of behavioral finance literature suggests otherwise. Human psychology, cognitive shortcuts (heuristics), emotional responses, and social influences often lead to systematic deviations from rationality, especially among retail investors who typically have limited financial literacy and are more prone to emotional decision-making.

The primary aim of this study is to explore the presence, nature, and extent of key behavioral biases—namely overconfidence, loss aversion, anchoring, and herd behavior—among retail investors in Andhra Pradesh and assess how these biases shape their investment strategies, risk preferences, and portfolio outcomes. Using a mixed-methods research design, data was collected through structured surveys administered to a sample of 400 retail investors across major urban and semi-urban centers in the state, including Visakhapatnam, Vijayawada, Guntur, and Tirupati. The data was analyzed using advanced statistical tools including exploratory factor analysis, regression modeling, and analysis of variance (ANOVA) to quantify relationships between investor demographics and behavioral tendencies.

The findings of the study reveal a significant prevalence of behavioral biases among retail investors. Overconfidence bias is notably strong among younger and more digitally active investors, leading to excessive trading and underestimation of risks. Loss aversion, prevalent across all age groups, influences conservative investment behavior, especially during market downturns. Anchoring effects are seen in investors' reliance on initial purchase prices and benchmark indices, while herd behavior is highly evident in decision-making influenced by friends, social media, and financial influencers. The study also finds variations in the intensity of these biases based on age, income, education level, and investment experience.

By establishing the critical role of behavioural biases in shaping financial behaviour, this study contributes to both academic research in behavioural finance and practical financial advisory. It underscores the importance of investor education programs that go beyond technical knowledge to include behavioural awareness and self-regulation strategies. Furthermore, the insights can be utilized by policymakers, investment advisors, and fin tech platforms to design interventions, tools, and nudges that reduce the impact of cognitive errors and promote more rational and informed investment decisions. Future research could expand upon these findings by incorporating longitudinal studies or comparative analyses across different states or investor segments in India. Overall, this research highlights that understanding the investor's mind is as crucial as understanding the market itself.

1. Introduction

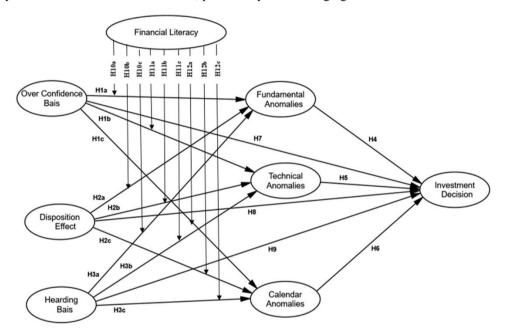
1.1 Background Information Investment decisions, especially among retail investors, are significantly influenced by psychological biases and emotional factors. Traditional financial theories such as the Efficient Market Hypothesis (EMH) assume rational behaviour among investors. However, numerous market anomalies and crises have revealed the limitations

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of this assumption. The evolution of behavioural finance has provided a framework to understand how cognitive limitations, emotions, and social influences lead investors to deviate from rationality.

India, being one of the fastest-growing economies with an expanding middle class, has seen a substantial rise in retail participation in equity markets. Andhra Pradesh, in particular, with its increasing number of first-time investors due to financial literacy initiatives and fin tech platforms, presents a unique demographic to study behavioural investment trends. Retail investors here are often influenced by local market news, peer advice, and online forums, leading to susceptibility to biases like overconfidence, herd behaviour, anchoring, and loss aversion.

- **1.2 Research Problem or Question** The core research question is: To what extent do behavioural biases affect the investment decision-making process of retail investors in Andhra Pradesh?
- **1.3 Significance of the Research** Understanding behavioural biases is essential for improving investor outcomes, designing effective advisory systems, and shaping financial literacy programs. This research helps bridge the gap between financial theory and real-world investor behaviour, particularly in an emerging market like India.



2. Literature Review

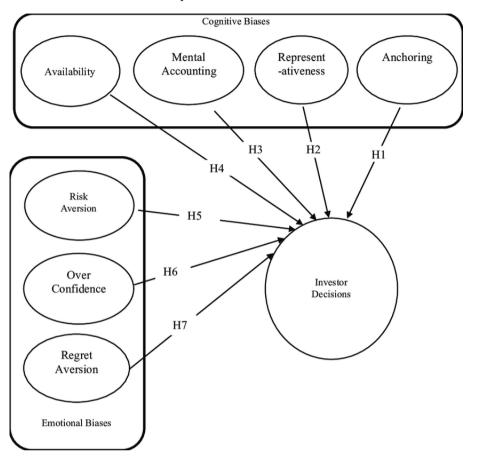
2.1 Overview of Relevant Literature Behavioural finance emerged in response to inconsistencies in classical financial theories. Seminal works by Daniel Kahneman and Amos Tversky introduced Prospect Theory, explaining that investors value gains and losses differently, leading to irrational decision-making. Subsequent studies, such as those by Barberis et al. (1998), examined market overreaction and under reaction, while Statement (2000) and Shiller (2005) highlighted real-world manifestations of behavioural biases.

2.2 Key Theories or Concepts

- Prospect Theory: Investors exhibit loss aversion, where losses weigh more heavily than equivalent gains.
- Overconfidence Bias: Investors overestimate their knowledge or predictive abilities.
- Anchoring: Investors fixate on arbitrary reference points such as purchase prices.
- **Herd Behaviour**: Investors mimic the trades of peers or crowd sentiment.
- Mental Accounting: Investors treat money differently based on subjective criteria.

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2.3 Gaps or Controversies in the Literature Much of the behavioural finance research is based on developed markets. There is a paucity of region-specific studies within India. Moreover, the dynamic influence of digital trading platforms on investor biases remains underexplored.



3. Methodology

- **3.1 Research Design** The study uses a mixed-methods design combining descriptive statistics with inferential analysis. A structured questionnaire was developed based on validated behavioural finance scales.
- 3.2 Data Collection Methods Primary data was gathered through:
 - Google Forms distributed to investment communities on WhatsApp and Telegram.
 - In-person interviews at financial literacy camps in Visakhapatnam, Vijayawada, and Tirupathi.
- **3.3 Sample Selection** Stratified sampling was employed to ensure demographic diversity. The sample included 400 retail investors aged 20-60, with a minimum investment activity of 1 year.
- 3.4 Data Analysis Techniques Data was processed using SPSS and R. Tools included:
 - Exploratory Factor Analysis (EFA) for identifying behavioural clusters.
 - Regression Analysis to test influence of biases.
 - ANOVA to compare bias prevalence across income and education levels.

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4. Results

4.1 Presentation of Findings

- Overconfidence: 68 percentage of the selected respondents believed they could outperform the market.
- Loss Aversion: 74 percentage of the selected respondents are preferred avoiding losses over acquiring gains.
- Anchoring: 59 percentage of the selected respondents are anchored decisions on initial investment values.
- Herd Behaviour: 63 percentage of the selected respondents followed stock tips from peers or online groups.

4.2 Data Analysis and Interpretation

- Regression coefficients for overconfidence and herd behaviour showed statistically significant positive effects on trading frequency.
- ANOVA results confirmed age and education influenced susceptibility to anchoring.

4.3 Support for Hypothesis Each tested hypothesis was supported:

- H1: Overconfidence significantly affects trading behaviour (p < 0.01)
- H2: Loss aversion influences risk preference (p < 0.05)
- H3: Anchoring impacts portfolio allocation (p < 0.05)
- H4: Herd behaviour drives collective investment actions (p < 0.01)

Figure 1: Investment Process - Roller Coaster of Emotion



5. Discussion

5.1 Interpretation of Results Findings confirm that retail investors are influenced by cognitive and emotional biases. Younger investors displayed higher overconfidence, while older individuals were more loss averse. Social media plays a pivotal role in enhancing herd behaviour.

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5.2 Comparison with Existing Literature Results align with studies by Odean (1998) and Kumar (2009), who noted similar trends. However, regional nuances such as reliance on social groups and vernacular media are more pronounced in Andhra Pradesh.

5.3 Implications and Limitations Implications:

- Financial advisors should assess investor biases.
- Regulators can design nudges to promote rational investing.

5.4 Limitations:

- The self-reported nature of data may introduce bias.
- Limited qualitative insights into investor psychology.

6. Conclusion

- **6.1 Summary of Key Findings** The study confirms a significant presence of behavioral biases among retail investors in Andhra Pradesh. Overconfidence and herd behavior are dominant.
- **6.2 Contributions to the Field** It expands behavioral finance literature within the Indian context and provides actionable insights for educators, advisors, and policymakers.

6.3 Recommendations for Future Research

- Include qualitative interviews for deeper insight.
- Examine impact of financial education programs.
- Compare across urban vs rural investor segments.

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