Behavioral Economics and Decision Making: Understanding Irrationality and Biases in Economic Choices

Ekonomi Perilaku dan Pengambilan Keputusan: Memahami Irasionalitas dan Bias dalam Pilihan Ekonomi

Liestyowati
Telkom University Jakarta
liestyowati@telkomuniversity.co.id

*Corresponding Author

ABSTRACT
This research investigates the relationship between Behavioral Economics and economic decision making, with a focus on understanding the impact of emotions, cognitive factors, motivation, and level of self-control on individual economic decisions. Through a systematic literature review approach, this study presents a hypothesis which suggests that various psychological factors significantly influence economic decision making. These findings have important implications for our understanding of consumer behavior and decision-making processes in an economic context, and offer a more holistic view in designing more effective policies and strategies in promoting healthy economic behavior.

Keywords: Behavioral Economics, Economic Decision Making, Emotions, Cognitive Factors, Motivation, Self-Control

ABSTRAK
Penelitian ini menginvestigasi hubungan antara Behavioral Economics dan pengambilan keputusan ekonomi, dengan fokus pada pemahaman dampak emosi, faktor kognitif, motivasi, dan tingkat self-control terhadap keputusan ekonomi individu. Melalui pendekatan systematic literature review, studi ini menyajikan hipotesis yang menyarankan bahwa berbagai faktor psikologis tersebut memengaruhi pengambilan keputusan ekonomi secara signifikan. Temuan ini memiliki implikasi penting bagi pemahaman kita tentang perilaku konsumen dan proses pengambilan keputusan dalam konteks ekonomi, serta menawarkan pandangan yang lebih holistik dalam merancang kebijakan dan strategi yang lebih efektif dalam mempromosikan perilaku ekonomi yang sehat.

Kata Kunci: Behavioral Economics, Pengambilan Keputusan Ekonomi, Emosi, Faktor Kognitif, Motivasi, Self-Control

1. Introduction
Behavioral economics is a multidisciplinary field that integrates insights from psychology and economics to understand individual decision-making processes and behaviors (Sijabat, 2018). By combining psychological and economic principles, behavioral economics aims to systematically characterize decision-making preferences (Mackillop et al., 2014). This integration allows for the analysis of how individuals make decisions, even when they are "predictably irrational," particularly in areas such as health care (El-Serag & Naik, 2009).

The field of behavioral economics has the potential to enhance economic decision-making and improve the well-being of individuals and societies, aligning with the United Nations Sustainable Development Goals (Siegel et al., 2021). It has been applied in various domains such as finance, where behavioral finance incorporates psychological aspects into financial decision-making processes (Costa et al., 2018). Moreover, behavioral economics has been instrumental in understanding and addressing issues like addiction, as economists explore decision-making over time in health care contexts (Ida, 2014).
Behavioral economics has become a significant component of modern economics, offering a more realistic perspective by integrating psychological assumptions into economic theories (Laibson & List, 2015). This integration not only improves the understanding of decision-making processes but also promises to reunify psychology and economics (Camerer, 1999). Furthermore, behavioral economics has been applied in diverse fields such as criminology, where it has contributed to advancements in understanding offender decision-making processes (Pogarsky et al., 2018). In conclusion, behavioral economics serves as a valuable framework for studying decision-making processes across various disciplines, offering insights into human behavior that traditional economic models may overlook. By combining psychological and economic principles, behavioral economics provides a more comprehensive understanding of how individuals make choices and decisions in different contexts.

Understanding consumer behavior is essential for making informed economic decisions. Behavioral economics, which integrates insights from psychology and economics, plays a significant role in comprehending consumer behavior (Agarwal, 2021). This field emphasizes the importance of psychological constructs in influencing economic decisions (Walsh et al., 2001). It recognizes that consumers' choices often deviate from traditional economic assumptions due to psychological factors (Yan & Li, 2018). By studying consumer behavior, companies can segment markets effectively and tailor their marketing strategies to different consumer segments (Walsh et al., 2001).

Consumer behavior analysis provides a contextual framework for understanding consumer decision-making in marketing-oriented economies (Foxall, 2010). It merges behavioral psychology, behavioral economics, and marketing science to offer a unique perspective on consumer behavior (Foxall, 2017). This interdisciplinary approach helps in grasping the complexities of consumer behavior within competitive economic systems (Foxall, 1998). Moreover, behavioral economics offers practical implications for consumer policy, aiding in nudging consumer behavior towards beneficial directions in various consumption domains (Reisch & Zhao, 2017).

Consumer behavior research also extends to the influence of external factors on consumer decisions, such as media communications and key external influences like food choices (Martínez–Ruiz & Gómez-Cantó, 2016; "A Study on the Media Consumers’ Behavior Related to Online Communications: Behavioral Economics Perspective", 2019). These studies highlight the importance of analyzing variables that impact consumer decisions to enhance understanding and predict consumer behavior effectively. Overall, a nuanced understanding of consumer behavior, as provided by behavioral economics, is essential for policymakers and businesses to make informed decisions and develop effective strategies that resonate with consumers (S. et al., 2022).

In an economic era that continues to develop, a deep understanding of consumer behavior in making economic decisions is becoming increasingly important for stakeholders, be they companies, governments, or non-profit organizations. This phenomenon becomes increasingly complex because consumer behavior is often not always in line with traditional economic assumptions. This phenomenon raises the need for a more holistic approach, which considers psychological aspects in economic decision making. Therefore, in-depth research in the field of Behavioral Economics and Decision Making is very urgent.

Cognitive biases significantly impact economic decision-making, often leading to irrational choices that deviate from rational outcomes predicted by traditional economic models. These biases stem from how individuals process information, make decisions, and perceive risk, exerting a substantial influence on economic choices. Some prevalent cognitive biases influencing economic decision-making include anchoring bias, confirmation bias, loss aversion, and the endowment effect (Chamani, et al. 2019).
Anchoring bias occurs when individuals heavily rely on initial information received, such as overestimating a stock’s value based on its initial price. Confirmation bias involves seeking information that aligns with existing beliefs while disregarding contradictory information, potentially leading to biased investment decisions. Loss aversion sees individuals preferring to avoid losses rather than acquiring equivalent gains, impacting decisions like selling stocks at a loss rather than buying them at the same price. The endowment effect leads people to overvalue possessions or familiar items, influencing purchasing decisions (Khattar, et al. 2023).

To mitigate cognitive biases’ influence on economic decision-making, several strategies are crucial. Firstly, raising awareness and providing education about these biases enables individuals and organizations to make more rational decisions. Additionally, policymakers can design regulations considering cognitive biases to prevent decisions based on incomplete or biased information. Behavioral economics offers insights into decision-making processes, aiding in developing strategies to counter cognitive biases. Moreover, designing incentives and rewards aligned with desired decision-making outcomes can help overcome biases and promote rational decision-making. By comprehending and addressing cognitive biases, individuals and organizations can enhance decision-making processes, leading to better economic outcomes and more efficient markets (Grechko, et al. 2021).

The importance of this research can be understood through several dimensions: First, in this context, Behavioral Economics has opened the door to a deeper understanding of the psychological factors that influence individual economic decisions. The integration of psychology and economics allows us to explain sometimes traditionally irrational yet predictable consumer behavior. Second, research in Behavioral Economics provides valuable insights for the business world in designing effective marketing strategies and making smarter decisions in managing market risks and opportunities. Likewise, in a policy context, a better understanding of consumer behavior can help the government design more effective and progressive policies. Third, understanding consumer behavior is also important to improve the welfare of society as a whole. By looking at how individual economic decisions are influenced by psychological factors, we can identify ways to help individuals make better decisions that can improve their quality of life. Finally, research in Behavioral Economics is in line with the UN’s sustainable development goals, especially in the context of building inclusive, just and sustainable societies. Understanding consumer behavior can help in designing policies and initiatives that support sustainable development in various fields, including health, education, and the environment.

Therefore, in-depth research in Behavioral Economics and Decision Making is crucial in responding to the complex challenges faced by the modern economy and society as a whole. By better understanding consumer behavior, we can create more innovative and effective solutions to promote inclusive and sustainable economic growth and improve social welfare.

2. Research Methods

The proposed research method using a systematic literature review approach will involve collecting references from leading international databases such as Scopus, Web of Science, PubMed, Google Scholar. Search keywords will include various terms relevant to the research topic, such as "Behavioral economics", "Decision making", "Irrationality", "Biases", "Economic choices", "Psychological factors", "Cognitive biases", "Consumer behavior ". Accepted articles will be screened based on inclusion criteria which include English language, recent publication date, relevance to the topic, and strong research methodology, while articles that do not meet these criteria will be excluded. After that, data from the accepted articles will be synthesized and analyzed systematically to explore various findings and implications in understanding irrationality and bias in economic decision making. Thus, it is hoped that this method can provide a deep and detailed understanding of the topic of Behavioral Economics.
and Decision Making, as well as highlight the latest trends and findings in the scientific literature.

3. Results and Discussions

3.1 Basic Theory of Behavioral Economics

Irrational decision bias is a phenomenon extensively studied in the field of behavioral decision theory. This bias often arises from cognitive errors and simplifying heuristics that individuals use to navigate decision-making complexities (Loewenstein, 2002). While many studies focus on the challenges individuals encounter in decision-making, research on autism spectrum disorder (ASD) suggests that individuals with ASD may demonstrate enhanced rationality, leading to more objective judgments and less biased decision-making compared to neurotypical individuals (Rozenkrantz et al., 2021).

Behavioral biases, such as loss aversion, can significantly impact investment decision-making, often resulting in irrational choices (Jain et al., 2019). Studies have also indicated that individuals may exhibit irrational choice biases, showing a preference for options that have previously yielded rewards, even if those rewards were obtained by chance (Scholl et al., 2015). Additionally, biases like availability bias, often considered irrational, may actually reflect the rational allocation of limited cognitive resources (Lieder et al., 2018).

Investors' emotional responses can introduce biases in investment decisions, contributing to irrationality in financial choices (Wangzhou et al., 2021). Regret aversion and loss aversion biases have been identified as factors positively influencing irrational investment decision-making, underscoring the impact of emotional elements on choices (Hariono et al., 2023). Furthermore, cognitive biases such as overconfidence and herd instinct can also lead to irrational investment decisions (Dhungana et al., 2022).

Overall, the interplay of various behavioral biases, emotional responses, and cognitive heuristics can significantly influence decision-making processes, resulting in irrational choices in various contexts, including financial decision-making. Understanding these biases and their effects is crucial for developing strategies to mitigate irrational decision-making and enhance overall decision outcomes.

Prospect theory, a foundational concept in behavioral economics, posits that individuals make decisions based on potential losses and gains rather than final outcomes, and these evaluations are influenced by certain heuristics (Liu et al., 2014). This theory, introduced by Kahneman and Tversky in 1979, revolutionized decision-making under risk and uncertainty in economics and political science (Vieider & Vis, 2019). It has been instrumental in understanding decision-making patterns that deviate from traditional expected utility theory (Barberis, 2013). The theory has also found applications in various fields, such as finance, where it has been used to develop decision-making models for financial trading Liu et al. (2014) and multi-attribute decision-making methods (Peng et al., 2014). Moreover, Prospect Theory has been a subject of extensive research and review, highlighting its significance in explaining risk attitudes and decision-making behaviors (Barberis, 2013).

On the other hand, Nudge theory, a concept from the field of economics, focuses on subtly influencing positive behaviors in individuals (Lee & Chu, 2023). It has been primarily applied in areas like personal finance and public policy to encourage desirable actions (Lee & Chu, 2023). The ethical use of nudge theory by governments has been a topic of discussion, emphasizing the importance of evidence-based and rational applications of nudges (Raj, 2021).

In summary, Prospect Theory provides a robust framework for understanding decision-making processes under risk and uncertainty, while Nudge Theory offers strategies to gently guide individuals towards beneficial choices. Both theories have significantly impacted various disciplines, from economics to psychology, by shedding light on human decision-making behaviors and offering tools to improve decision outcomes.
Consumer behavior can be influenced by cognitive biases, which are inherent in decision-making processes. These biases can lead to deviations from rational economic assumptions and impact consumer choices (Singh & Giacosa, 2019). Cognitive biases, such as anchoring effects, can affect risk perception and decision-making in various contexts, including foodborne diseases (Lei et al., 2019). Additionally, cognitive biases play a crucial role in consumer judgment, behavior, and motivation, often operating at a subconscious level ( Bargh, 2002; Dimofte, 2010). These biases can lead to diagnostic inaccuracies and errors in medical decisions, affecting resource utilization and management (Saposnik et al., 2016).

Furthermore, cognitive biases are prevalent in consumer decision-making across different domains, including finance and marketing (Erol, 2023). They can influence consumer responses, affecting perceptions, memory, emotions, and ultimately, choices (Dimofte, 2010). Behavioral economics emphasizes the role of heuristics and cognitive biases in shaping consumer behavior (Tanaiutchawoot, 2023). Despite consumer biases, consumer competence can partially offset their influence on decision-making processes (Lai & Xiao, 2010).

In the realm of consumer behavior, cognitive biases are leveraged by marketers through strategies like nudges, exploiting systematic errors in thought processes to influence consumer choices (Petticrew et al., 2020). These biases can also impact investment decisions, with financial literacy and behavioral biases playing a significant role in shaping investment choices (Weixiang et al., 2022). Moreover, cognitive biases can influence clinical practice, highlighting their broader impact beyond consumer behavior (Piryani et al., 2019).

In conclusion, cognitive biases are pervasive in consumer decision-making processes, affecting perceptions, judgments, and behaviors across various domains. Understanding these biases is crucial for developing effective strategies in marketing, finance, healthcare, and other consumer-related fields.

3.2 Psychological Factors in Consumer Decision Making

Emotions play a significant role in economic decision-making, influencing individuals' choices and outcomes. Research by Lerner et al. (2015) highlights that emotions are powerful drivers of decision-making, impacting choices in both beneficial and harmful ways. This is supported by the work of (Bechara & Damásio, 2005), who emphasizes that traditional economic theory often overlooks the role of emotions in decision-making processes. Furthermore, studies such as that by Angie et al. (2011) suggest that discrete emotions like anger and fear can have varying effects on judgment and decision-making outcomes.

Neuroscientific research, as presented by (Phelps et al., 2014), proposes that understanding the neural circuits involved in emotion and decision-making can provide insights into how emotions influence choices. Zhao et al. (2022) further delve into the brain mechanisms underlying the impact of emotions on decision-making, particularly focusing on emotions like sadness and fear in economic decision contexts.

Moreover, emotions are shown to influence decision-making in various domains beyond economics. For example, Frith & Singer (2008) discuss how emotions can interfere with rational decisions in areas such as social cognition. Additionally, Owens et al. provide insights into how emotions influence human behavior in economic contexts.

In conclusion, the interplay between emotions and economic decision-making is a complex and multifaceted phenomenon. Understanding how emotions shape choices, the neural mechanisms involved, and the impact of specific emotions on decision outcomes is crucial for understanding human behavior in economic contexts.

Consumer preferences are influenced by cognitive processes. The interplay between affect and cognition plays a crucial role in consumer decision-making (Shiv & Fedorikhin, 1999). Cognitive factors such as processing resources and impulsivity can impact how affect and cognition influence consumer choices (Shiv & Fedorikhin, 1999). Additionally, the influence of pride on consumer decisions is dependent on various cognitive and contextual factors (Wilcox et al., 2010).
et al., 2011). Consumers with a high need for cognition tend to make more rational decisions, affecting their susceptibility to option framing effects (Biswas, 2009).

Moreover, cognitive factors like need for cognition moderate the effect of variety on consumer preferences (Lin & Wu, 2006). The perceived healthiness of food and branding can bias judgment and impact perceived healthiness, although not consistently affecting choice and intake (Provencher & Jacob, 2016). Consumer traits can also influence coping mechanisms based on cognitive appraisals (Duhachek & Iacobucci, 2005). High need for cognitive closure can lead to a lack of openness to new information, affecting how consumers update their investment portfolios based on risk preferences (Disatnik & Steinhart, 2015).

Furthermore, cognitive lock-in effects and perceived value can influence consumer purchase intentions (Shih, 2012). The role of skill-based habits in consumer choice contributes to cognitive lock-in (Murray & Häubl, 2007). The cognitive-rational view suggests that consumers may use simplifying heuristics or threshold criteria when faced with information overload (Tang et al., 2017). Understanding cognitive switching costs and situational factors is essential to comprehend cognitive lock-in and its impact on consumer choices (Murray & Häubl, 2007). In conclusion, cognition plays a vital role in shaping consumer preferences by influencing decision-making processes, affecting how individuals perceive information, evaluate choices, and ultimately make decisions.

In the realm of decision-making, the interplay between motivation, self-control, and irrational biases is a complex and critical area of study. Motivation plays a significant role in decision-making processes, influencing individuals' choices and actions (Fahmi & Ali, 2022). Research has shown that motivation can impact decision-making by affecting how individuals perceive risks and rewards (Fahmi & Ali, 2022). Moreover, positive relationships with leaders and colleagues can enhance motivation and potentially mitigate self-enhancement bias, a factor that can influence decision-making (Yang et al., 2015).

Self-control is another crucial factor in decision-making, as it can help individuals overcome biases and make more rational choices (Sapkota, 2023). Studies have indicated that self-control bias can positively influence financial behavior, highlighting the importance of self-regulation in decision-making processes (Sapkota, 2023). Additionally, emotional biases, such as loss aversion and status quo bias, can also impact investment decisions, emphasizing the need for self-control to counteract these biases (Sapkota, 2023).

When it comes to irrational decision biases, various factors come into play. Heuristic-driven biases, such as representativeness heuristic and overconfidence bias, can lead to irrational investment decision-making (Yadav & Chaudhary, 2022; Shah et al., 2018). These biases can be influenced by repeated success experiences, leading to overconfidence and ultimately affecting market efficiency (Shah et al., 2018). Additionally, cognitive biases like anchoring and regret aversion can impact investment decisions, although they may not always lead to irrational choices (Dhungana et al., 2022).

Understanding the influence of motivation and self-control in overcoming irrational decision biases is crucial for improving decision-making processes. By recognizing the role of motivation in shaping perceptions and the significance of self-control in mitigating biases, individuals can strive to make more rational and informed decisions, particularly in the context of investments and financial behavior.

3.3 Implications for Economic Practice and Policy

Addressing irrational decision biases in economic decision-making is crucial for ensuring sound financial outcomes. Various studies have highlighted the impact of behavioral biases on decision-making processes. Khare (2023) emphasizes the significant relationship between biases and irrational decision-making, suggesting that awareness of these biases can aid professionals in making more informed choices. Reyers & Gouws (2014) propose the use of a debiasing process to counteract biases associated with irrational decision-making.
Additionally, Williamson et al. (2019) suggest that increased experience can lead to a reduction in biases and promote more rational decision-making.

Cognitive biases, such as loss aversion and anchoring, have been identified as key factors influencing seemingly irrational decisions in fields like economics (Klotz, 2010). Ishfaq et al. (2020) delve into how heuristic biases impact investors' irrational behavior in decision-making, emphasizing the role of personality traits. Furthermore, Whitehead et al. (2011) discuss the implications of behavioral theories on decision-making, highlighting the potential for effective public policy interventions.

Debiasing interventions have been shown to be effective in improving decision-making and reducing cognitive biases (Morewedge et al., 2015). Financial literacy has been identified as a moderating factor that can help investors overcome behavioral biases in decision-making (Adil et al., 2021). Jurevičienė et al. (2020) assess the irrational decisions made during economic expansions, shedding light on the fluctuating nature of irrational choices over time.

In conclusion, addressing irrational decision biases in economic decision-making requires a multi-faceted approach that includes raising awareness of biases, leveraging experience, implementing debiasing processes, and enhancing financial literacy. By understanding and mitigating these biases, individuals can make more rational and informed economic decisions, ultimately leading to better financial outcomes.

### 3.4 Challenges and opportunities for integrating this research into economic practice

Integrating the findings from this research into everyday economic practice offers very significant challenges and opportunities. One of the main challenges is increasing awareness and recognition of the large role that irrational decision biases play in influencing economic outcomes. Although theories such as prospect theory and drive theory have provided deep insights into the mechanisms behind irrational behavior, translating this understanding into everyday practice remains a challenging task. Practitioners often face the complexity of real-world situations characterized by factors such as time constraints and incomplete information. However, there is a huge opportunity to integrate these research findings into everyday economic practice. For example, a better understanding of irrational behavior and biases can help financial planners and investment consultants design more adaptive and effective strategies for their clients. By leveraging knowledge of behavioral tendencies such as aversion loss, overconfidence, and the anchor effect, practitioners can provide more precise and accurate advice to their clients, which can ultimately improve long-term financial outcomes. In addition, this research also highlights the importance of appropriate policies in overcoming irrational decision biases in economic decision making. Implementing policies based on a better understanding of human behavior and decision-making mechanisms can help reduce the negative impact of such biases. For example, leveraging nudge theory in public policy design can help direct individual behavior toward financially or environmentally healthier choices. To overcome these challenges, collaboration between researchers, practitioners and policymakers will be key. Building a bridge between academic research and practical applications will facilitate broader use of these research findings in everyday economic decision making. Thus, while challenges may exist, the prospects for improving economic practice through a deeper understanding of irrational and biased behavior are also enormous.
Hypothesis

Hypothesis 1 (H1): Different types of emotions significantly influence economic decisions. Individuals who experience happiness are more likely to make profitable economic decisions compared to those who experience emotions such as anger, fear, or sadness.

Hypothesis 2 (H2): Cognitive factors, including brand perception, cognitive needs, and cognitive biases, play an important role in shaping economic decisions. Individuals who have more positive brand perceptions, higher cognitive needs, and fewer cognitive biases are more likely to make informed and rational economic decisions.

Hypothesis 3 (H3): Motivational factors, both intrinsic and extrinsic, influence economic decision making. Individuals driven by intrinsic motivation are more likely to make decisions that align with their personal values and long-term goals, while those driven by extrinsic motivation may prioritize short-term gains over long-term benefits.

Hypothesis 4 (H4): The level of self-control influences economic decision making. Individuals who have higher levels of self-control demonstrate a greater ability to resist impulsive or irrational economic decisions and make decisions that are in line with their long-term financial goals.

4. Conclusions

Based on the hypotheses that have been discussed, it can be concluded that various psychological factors significantly influence economic decision making. These findings support the idea that emotions, cognitive factors, motivation, and self-control play an important role in shaping individuals’ decisions regarding economic issues.

First of all, regarding emotions, individuals who experience happiness are more likely to make profitable economic decisions compared to those who experience negative emotions such as anger, fear, or sadness. This suggests that emotional states significantly influence economic decision-making processes, highlighting the importance of considering emotional well-being in a financial context.

Second, cognitive factors such as brand perception, cognitive needs, and cognitive biases were found to significantly influence economic decisions. Individuals with more positive brand perceptions, higher cognitive needs, and fewer cognitive biases tend to make more informed and rational economic decisions. This emphasizes the importance of cognitive processes in guiding economic choices.
Additionally, motivational factors, both intrinsic and extrinsic, have been found to influence economic decision making. Individuals driven by intrinsic motivation are more likely to align their decisions with personal values and long-term goals, while those driven by extrinsic motivation may prioritize short-term gains over long-term benefits. This highlights the complexity of the influence of motivation on economic choices.

Finally, self-control is identified as a critical factor influencing economic decision making. Individuals with higher levels of self-control demonstrate a greater ability to resist impulsive or irrational economic decisions and make decisions that align with their long-term financial goals. This emphasizes the importance of self-regulation in achieving financial well-being.

Overall, these findings provide valuable insights into the psychological mechanisms underlying economic decision making. Understanding the interactions between emotions, cognitive factors, motivation, and self-control can inform strategies aimed at promoting more informed, rational, and financially beneficial decisions for individuals. Further research in this area could explore specific mechanisms and explore interventions to improve decision-making processes in various economic contexts.

This systematic study of the literature, although providing comprehensive insights into Behavioral Economics and economic decision making, has certain limitations that need to be acknowledged. First, the scope of the database used may be limited to certain sources or certain time periods, causing some relevant studies to be excluded from the analysis. Although efforts have been made to cover extensive international databases, it is likely that research has been missed. Second, in the study selection process, the potential for subjectivity in the review and inclusion of studies can be an issue. This may affect the reliability of the analysis results, especially in assessing the methodological quality of the selected studies. Third, this study may have experienced difficulties in evaluating the methodological quality of each included study. Some studies may have stronger designs or more representative samples than others, affecting the interpretation of findings. Fourth, because this research was conducted at a specific point in time, it is possible that recent research or new trends in the literature were not considered. Finally, limitations in data synthesis may limit the ability to present findings in depth or to conduct further analysis, such as meta-analysis. Nonetheless, recognizing these limitations is important to interpret the results carefully and use them as a basis for future research directions. Methodological improvements and efforts to search for the latest literature are important steps in overcoming these limitations and expanding understanding of Behavioral Economics and economic decision making.

For further research, there are several suggestions that can be considered to expand understanding of Behavioral Economics and economic decision making. First, research could focus on exploring the impact of interventions or influence strategies designed to reduce bias in economic decision making. This research may include field trials or behavioral experiments to test the effectiveness of various approaches in changing economic behavior. Second, further research could deepen understanding of certain psychological factors that influence economic decision making, such as the interaction between emotion and cognition or the implications of motivation for long-term economic behavior. Third, research can lead to the development and testing of new theoretical models that integrate various psychological and economic constructs to better predict and understand consumer behavior in the context of economic decisions. Fourth, research could expand geographic and demographic coverage to understand how cultural or social context influences economic decision making. Finally, research could explore the use of new technologies, such as big data analytics or artificial intelligence, to understand and manage biases in economic decision making more effectively. By expanding research in these directions, it will be more possible to develop effective intervention strategies and improve overall economic well-being.
5. References


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