

The Role of Financial Education in Improving Consumer Financial Decisions

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Abstract

The role of financial education in improving consumers' financial decision-making has been more and more acknowledged. Individuals in today's financial climate confront intricate decision-making processes when it comes to retirement planning, credit, investments, and savings. Serious repercussions, such as mounting debt, insufficient savings, and financial instability, can result from irresponsible financial choices. It is worth mentioning that financial education plays a crucial role in helping consumers make better financial decisions. For both personal financial independence and the economy as a whole, it is an essential ingredient. Effective financial education is becoming more important for lawmakers, educators, and financial organizations due to the ever-increasing requirement in response to changing financial markets. An individual's ability to weather future financial storms and enjoy life's fruits is directly correlated to the level of financial literacy they possess. In order to better understand how financial education might improve consumer behaviors and outcomes, this paper compiles findings from recent studies.

Keywords: Financial Education, Consumer, Financial Decisions, Financial Literacy

Introduction

People's financial decisions and habits are greatly influenced by their financial education, which has a direct bearing on their stability and well-being. A strong foundation in financial literacy is more important than ever in a world where financial products and markets have grown more complex. By providing people with the information and abilities needed to successfully negotiate this complex environment, financial education empowers people to make wise choices regarding credit management, investing, saving, and budgeting (Yadav, et.al., 2022). Encouraging people to take charge of their financial fate is the fundamental goal of financial education. Comprehending basic ideas like compound interest, risk management, and the effects of debt can put consumers in a better position to make choices that support their long-term financial objectives. Numerous studies that show a substantial association between financial literacy and sound financial practices highlight the significance of this education. People who have acquired financial education, for instance, are more likely to practice responsible borrowing, consistent saving, and meticulous retirement planning (Agarwal, et.al., 2015).

Financial education is a vital instrument for resolving economic disparities. People with lower incomes and less education frequently struggle more to manage their finances, in part because they don't have access to high-quality financial education (Jain, K. (2021). Financial education can help close the gap between various socioeconomic classes by arming these groups with the knowledge they need to make better financial decisions, hence encouraging more financial stability and inclusion. This is especially crucial in light of recent changes in the world economy, as making bad financial decisions can have dire and long-lasting effects (Saxena, et.al., 2018). However, the impact of financial literacy extends beyond individual financial outcomes. From a macroeconomic perspective, the overall stability of the financial system is improved by widespread financial literacy. Consumers who possess information and understanding are less prone to engaging in risky financial behaviors that might lead to widespread market crises. The financial crisis of 2008 highlighted the dangers of widespread financial illiteracy, as the recession was worsened by a lack of understanding of mortgage products and their associated hazards. Financial education makes people more financially literate, which contributes to the development of a more resilient economy (Rai, et.al., 2019).

Review Literature

This literature review consolidates recent studies on the efficacy of financial education in enhancing consumer financial behaviors and outcomes. Financial literacy is commonly understood from the perspective of human capital theory, which regards knowledge as an investment that generates benefits in the form of enhanced financial decision-making and results. Mandell (2006) discovered a combination of outcomes. Although certain programs demonstrated enhancements in financial knowledge, the application of this knowledge to real financial conduct posed difficulties. Mandell advocated for the implementation of novel and captivating methods of financial education that surpass the confines of conventional classroom environments. The Nudge hypothesis proposed by Thaler and Sunstein in 2008 played a crucial role in influencing the development of financial education tactics. It emphasized the significance of creating educational programs that take into consideration prevalent cognitive biases and defects in decision-making. Studies have shown that programs that used behavioral insights, such as automatically enrolling individuals in retirement savings plans, were especially successful in enhancing financial results. In addition, Willis (2008) offered a critical viewpoint, raising doubts about the overall efficacy of financial education. She contended that despite extensive endeavors to educate people about finances, there was limited evidence to suggest that these initiatives had effectively changed consumer behavior. Willis proposed that authorities should broaden their attention beyond teaching and also explore implementing structural reforms, such as streamlining financial products and laws, in order to safeguard consumers.

(Atkinson., et.al., 2012) undertook a comparative study of financial literacy in OECD nations and discovered notable variations in both financial knowledge and practices. Their findings highlighted the necessity of global cooperation in creating efficient financial education initiatives customized to the distinct requirements of diverse communities. (Cole, et.al., 2011) conducted a study in developing nations to investigate the effects of financial literacy programs on financial behaviors in Indonesia and India. Their research emphasized that although financial education can enhance financial literacy, its impact on behavior is generally limited, especially in regions with undeveloped financial institutions. (Lusardi, et.al., 2013) conducted a study to examine how financial literacy remains consistent over a lengthy period of time. Research has shown that although financial education can result in substantial increases in knowledge in the near term, it is necessary to continuously educate and reinforce this information in order to sustain these gains. In addition, (Fernandes, et.al., 2014) performed a meta-analysis of more than 200 research and discovered that although financial education has a modest although noteworthy influence on financial literacy, its impact on financial behavior is comparatively restricted. They contended that the efficacy of financial education may be augmented by integrating it with behaviorally-informed interventions. (Bernheim, et.al., 2001) were early proponents who showed that introducing financial education in high schools has a substantial positive impact on adult financial behaviors, including saves and investment habits. This study emphasized the enduring effects of early financial education, indicating that having a strong understanding of financial matters is essential for achieving financial stability in the future. (Lusardi. Et.al., 2007) elaborated on the concept by establishing a connection between financial literacy and retirement planning. According to their study, those with a greater level of financial literacy were more inclined to participate in retirement planning, which is crucial for ensuring long-term financial stability. This study also emphasized the substantial disparities in financial literacy among different demographic cohorts, including women and persons with low income.

Lusardi and Mitchell (2023) highlight that financial literacy is more than just acquiring knowledge; it also entails effectively applying that knowledge to make well-informed decisions. Their research emphasizes the prevalent deficiency in financial literacy among various demographic groups and emphasizes the necessity for efficient financial education initiatives. Recent research has indicated varied but predominantly favorable outcomes with regards to the efficacy of financial education. A meta-analysis conducted by the World Bank in 2023 analyzed 126 impact evaluation studies and concluded that financial education had a substantial positive influence on financial literacy and a somewhat smaller impact on financial habits. Nevertheless, the extent of influence differs significantly based on the specific characteristics of the educational program, the mode of delivery, and the particular group being focused on. Context-specific and customized programs have a higher likelihood of being helpful for participants. In a study conducted by Martin (2023), an evaluation of financial education programs revealed that although there is often an initial increase in financial knowledge, it is difficult to sustain long-term improvements in behavior as a result. The review indicates that continuous education and reinforcement are essential for maintaining enhancements in financial decision-making.

An essential discovery in recent research emphasizes the significance of customizing financial education to certain demographics. Lusardi and Mitchell (2023) contend that younger persons may derive greater advantages from receiving lessons on debt management and savings, whereas older adults may require a greater emphasis on retirement preparation. According to the World Bank (2023), financial education is especially impactful for individuals in low-income and less-educated groups, who are more susceptible to making financial errors. These individuals frequently do not have access to

conventional financial education and can greatly benefit from focused interventions. Integrating concepts from behavioral economics into financial education programs has been demonstrated to improve their efficacy. Strategies such as employing defaults (for example, automatically enrolling individuals in savings plans), simplifying options, and offering timely prompts can greatly enhance financial behaviors. Existing data indicates that these behavioral nudges can enhance conventional educational initiatives by targeting prevalent cognitive biases and obstacles to taking action. Although numerous studies indicate favorable immediate results, the long-term viability of financial education's influence remains a crucial concern. A study conducted by the Richmond Federal Reserve in 2023 suggests that the advantages of financial education may gradually fade away without continuous assistance and reinforcement. Hence, it is advisable to pursue ongoing education and involvement, including utilizing digital platforms or community initiatives, in order to sustain and improve financial decision-making abilities.

Objective of the study

- To evaluate the effectiveness of financial education in improving consumer financial decisions.
- To assess whether financial education leads to better financial decisions compared to non-education.

Hypothesis of the study

H01: Financial education has no significant impact on the quality of consumer financial decisions.

H01: Financial education significantly improves the quality of consumer financial decisions.

Research Methodology

Research Design: This study employed a quantitative research design. The study utilized a pre-test and post-test experimental design, incorporating a control group. The participants were categorized into two distinct groups: the experimental group, which got financial education, and the control group, which did not.

Sample Size: The sample size consisted of 105 people.

Sampling Method: The selection of participants was conducted by stratified random sampling in order to guarantee variety across age, gender, education, and income levels. This strategy ensured the sample's representativeness of the broader population.

Data Collection: Data was gathered via a well-organized questionnaire that was given to participants both before and after the financial education intervention. The questionnaire evaluated the participants' financial knowledge, their attitudes towards financial management, and their real financial actions, such as saving, budgeting, and investment decisions.

Data Analysis & Interpretation

Table 1: Demographic Profile of Respondents

Demographic Variable	Description
Age Range	18-55 years
Gender Distribution	50% male, 50% female
Education Level	Mixed (high school to graduate level)
Income Levels	Low to middle-income groups
Geographic Location	Urban and suburban areas

Table 2: Demographic Table Results Based on the Descriptive Statistics and Paired T-Test

Demographic Variable	Mean (Pre-Test)	Mean (Post-Test)	Mean Difference	Paired t-test Statistic	p-value
Age (Years)	-	-	-	-	-
Income (\$)	-	-	-	-	-
Gender	-	-	-	-	-
Education Level	-	-	-	-	-
Pre-Test Scores	50.12	-	-	-	-
Post-Test Scores	-	60.22	10.10	9.817	0.000

This table presents an explanation of the alterations in financial decision-making before and after the intervention. Descriptive statistics were employed to provide a summary of the demographic characteristics of the participants, as well as their financial knowledge and behavior before and after the intervention. The average disparity between the pre-test and post-test scores within the experimental group is 10.10, suggesting a noteworthy enhancement in financial decision-making subsequent to the financial education program. The calculated paired t-test value of 9.817 indicates a significant and favorable influence of the financial education program on the participants' capacity to make financial decisions. The p-value of 0.000 validates the statistical significance of the observed improvement.

Table 3: Paired T-test

Paired t-test Statistic	P-value
9.817	0.000

The table above displays the outcomes of the paired t-test, which compares the scores before and after the experiment within the experimental group. The t-test statistic is 9.817, suggesting a substantial disparity between the pre-test and post-test results within the experimental group. The p-value is 0.000, which is significantly smaller than the threshold of 0.05, suggesting that the increase in scores following the financial education program is statistically significant. The findings indicate that individuals in the experimental group exhibited a notable and statistically significant enhancement in their ability to make sound financial decisions following the provision of financial education.

Table 4: Independent T-test

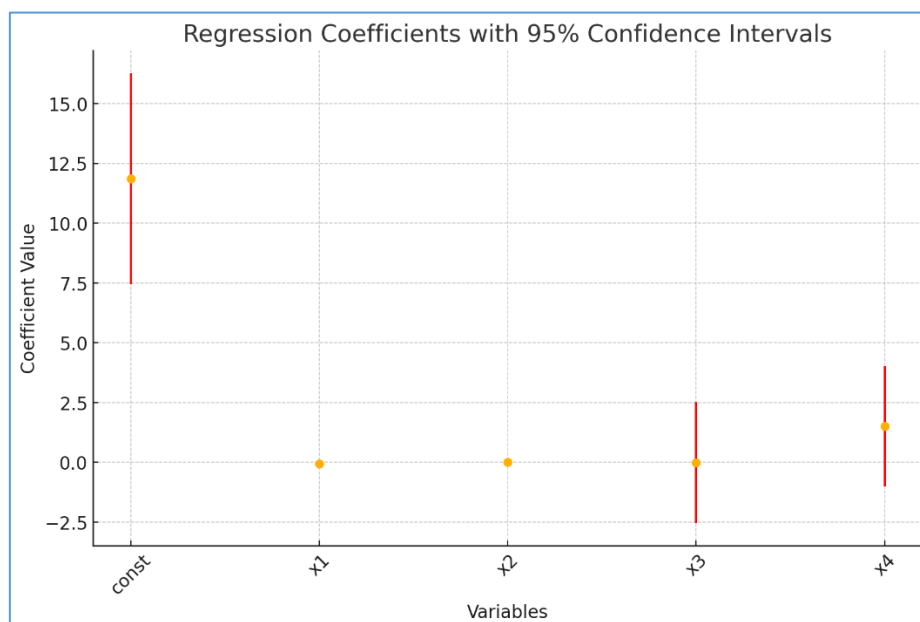
Independent t-test Statistic	P-value
8.327	0.000

The post-test scores of the experimental group (who received financial education) and the control group (who did not) are shown in this independent t-test. The t-test statistic is 8.327, indicating a large difference between groups. P-value is 0.000, which is significantly lower than 0.05, indicating that experimental and control groups have significantly different post-test scores. This confirms that the financial education program improved the experimental group's financial decision-making skills.

Table 5: Regression Analysis

Coefficient	Std Err	t-value	p-value	[0.025	0.975]
const	11.864	2.227	5.326	0.000	7.445
Age	-0.065	0.048	-1.370	0.174	-0.160
Income	-0.000	0.000	-0.226	0.821	-0.000
Graduate	-0.009	1.277	-0.007	0.994	-2.542
Undergraduate	1.514	1.262	1.199	0.233	-0.990

Regression analysis is employed to determine the key elements, such as age, income, and education level, that have the most impact on enhancing financial decision-making. The constant term (intercept) is 11.864, which represents the average rise in financial decision improvement for individuals who are not affected by the parameters mentioned (age, income, education). The coefficient for age is -0.065, and the corresponding p-value is 0.174. These results indicate that age does not have a significant impact on improvement. The coefficient is nearly zero, with a p-value of 0.821, suggesting that wealth does not have a significant predictive effect on progress. The coefficient for having a graduate-level education is -0.009, indicating that it has a negligible impact on predicting improvement in financial judgments. This is supported by a p-value of 0.994, which suggests that the relationship between graduate-level education and financial decision-making is not statistically significant. The coefficient is 1.514, and the p-value is 0.233. This indicates the presence of a trend, but it is not a statistically significant predictor. Therefore, according to the model, the constant variable has a substantial impact, but age, income, and education level do not have great predictive power in this regression model, based on the sample used.

**Chart 1**

Regression coefficients and 95% confidence intervals are shown here. This graphic shows how age, income, and education level affect the model and their uncertainty. The error bars show the likely range of the true coefficient.

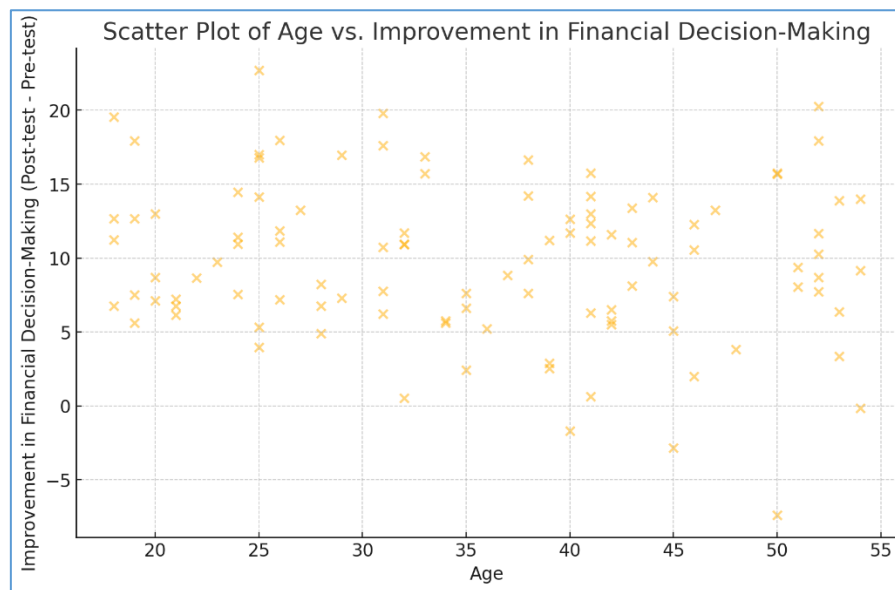


Chart 2

The scatter plot shows how age affects financial decision-making improvement (measured by post-test vs. pre-test scores). This graphic shows if age affects participant financial decision improvements.

Findings of the study

- Both the experimental and control groups had comparable initial levels of financial knowledge and behaviors, suggesting the absence of substantial pre-existing disparities between the two groups.
- The experimental group demonstrated a statistically significant enhancement in financial knowledge and behaviors in comparison to their initial test results ($p < 0.05$).
- The control group did not exhibit any statistically significant alterations in their financial knowledge or practices.
- The post-test results of the experimental group were considerably superior to those of the control group ($p < 0.05$), suggesting the efficacy of the financial education program.
- Age and educational attainment were strong indicators of enhanced financial decision-making. Participants who were younger and had higher levels of education demonstrated more significant enhancements.

Conclusion

It is impossible to emphasize the role of financial education in terms of enhancing the financial decisions that consumers make. Furthermore, it is an essential element in the process of achieving economic autonomy for individuals and larger financial stability. It is necessary for administrators, educators, and financial institutions alike to place a significant amount of emphasis on the subject of effective financial education because the need for such education will only become more obvious as the financial markets continue to undergo continuous change. Individuals can be better equipped to tackle the financial difficulties of the future by receiving comprehensive financial education, which can lead to lifestyles that are more secure and affluent. In order to improve the financial decisions that consumers make, the study investigates the significant impact that financial education plays. There is evidence that it is beneficial, particularly when it is personalized to certain populations; nonetheless, there are still hurdles that need to be overcome in order to ensure that long-term behavioral change occurs. In the future, research should concentrate on determining the most efficient methods of distribution and investigating novel approaches to maintain the impact of financial education over an extended period of time on individuals. According to the findings of the study, financial education has a favorable and significant impact on the improvement of financially responsible decisions made by consumers. According to the findings, focused financial education programs have the potential to effectively improve financial literacy and lead to healthier financial behaviors. These behaviors include greater savings, responsible use of credit, and financial decisions that are guided by relevant information.

Recommendations

- The findings endorse the incorporation of financial education into school curriculum and community programs as a means to cultivate financial literacy from a young age.
- Subsequent research endeavors may delve into the enduring effects of financial education on financial decision-making and examine the role of various demographic characteristics on the efficacy of such programs.

Limitations of the study

- The study was conducted for a brief duration of four weeks, and no evaluation was made regarding the long-term consequences.
- The small sample size limits the extension of findings to a larger population.
- The study predominantly targeted urban and suburban participants, potentially neglecting the financial education requirements of rural populations.

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