



A STUDY ON ROBO – ADVISORS AND THE FUTURE OF WEALTH MANAGEMENT

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Abstract : Robo advisers have emerged as a disruptive force in the wealth management industry, providing customers with algorithmic financial planning and investing services. This abstract examines the history of robo advisers, their influence on traditional wealth management techniques. The emergence of robo advisers can be linked to their capacity to democratise financial advice by making investment options more accessible and inexpensive to a larger audience. These digital platforms use complex algorithms and artificial intelligence to analyse customer data, determine risk profiles, and offer personalised investment portfolios. By removing the need for human middlemen and delivering low-cost alternatives, robo advisers have drastically reduced the barriers to entry for investors, particularly millennials.

Keywords : Robo advisers, Wealth Management, Algorithm, Financial planning

INTRODUCTION

The world of personal finance has rapidly changed due to the disruptive innovation known as robo-advisors in the field of wealth management. By utilising advanced algorithms and automation, these digital platforms enable individuals to access high and investment management services that are typically provided by advisors because of their user friendly interfaces and affordable prices, robo advisers are appealing to a diverse spectrum of investors. From beginners to seasoned pros, and they have the potential to democratise access to professional financial guidance. The main objective is to provide individualised financial advice that caters to each investor's particular circumstances. These platforms are capable of evaluating investors' risk tolerance, investment horizon and financial goals in order to create personalized investment plans through advanced data analysis and machine learning techniques with AI we can exclusively handle the wealthy clients of conventional financial advisors. The degree of customization is now available to anybody with an connection of Internet. Robo advisers are in a good position to broaden their range of products they offer beyond conventional asset classes like bonds and stocks and equities. These platforms will probably include a wider range of investment options as interest in alternative investments like real estate commodities. This will enable investors to diversify their portfolio and mitigate their risk. In conclusion, Robo advisers have already revolutionised the wealth management sector by making expert financial advice and individualised investment management more accessible to all in the future, these digital platforms have had the potential to completely transform how people handle their finances by providing all inclusive options that are tailored to each person's, specific requirements and preferences.

NEED OF THE STUDY

The primary aim of this research is to tackle the increasing demand for comprehension of the complex interplay among robo-advisors, the dynamic wealth management scene, investor conduct, and regulatory obstacles in the digital era. By understanding these relationships, the research hopes to provide the creation of guidelines and procedures for making decisions in the financial industry. The study aims to further development of the robo-advisory sector and the future course of wealth management techniques by exploring these complexities.

3.1 DATA AND SOURCES OF DATA

This study contains structured questionnaires were distributed using google forms in order to gather data. These surveys were made in an effort to learn more about the respondents, awareness of robo-advisors, opinions on the demographics and technology in the field of wealth management, opinions on traditional financial advisors. To provide a thorough analysis of the intricacies surrounding robo-advisors and the future of wealth management, the research combined primary survey data with insights from earlier studies.

3.2 Theoretical framework

The theoretical framework aims to comprehensively assess how robot-advisors will bring change in wealth management. In the financial services industry, robot-advisors, or automated investing platforms that employ algorithms to manage portfolios and give financial advice, have become a disruptive force. It is imperative that practitioners, policymakers, and researchers alike comprehend their significance and the factors that influence their adoption and assimilation into conventional wealth management methodologies.

RESEARCH METHODOLOGY

The study uses methods design, distributing structured questionnaires for primary data collection via Google Forms. The variables include information about demographics, investment behavior, knowledge of robo advisors, and traditional financial management, if robo advisors will be able to cater the expectations of clients, concepts:

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3.1 Data and Sources of Data

a) Are you familiar with the concept of robo advisors?

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100 responses

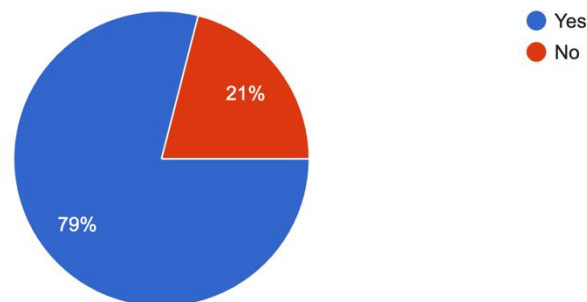


Figure 1- Familiarity with the concept of Robo-Advisors

In figure 1 probably shows the results of a survey regarding robo-advisors. Roughly 21% of respondents were unfamiliar with the idea, compared to two-thirds, or 79%, of those surveyed who were. Investment platforms that use algorithms to manage portfolios are known as robo-advisors. These are a new financial technology that is becoming popular, especially with people who wish to invest but don't have the time or expertise to do it on their own. When it comes to fees, robo-advisors frequently have lower costs than traditional financial advisors.

b) What role do you think artificial intelligence and machine learning play in the development and improvement of robo advisors?

What role do you think artificial intelligence and machine learning play in the development and improvement of robo-advisors?

100 responses

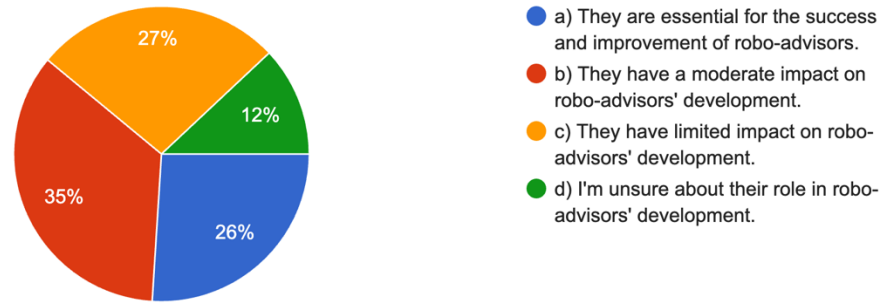


Figure 2- Role of AI and ML in Robo-Advisors

In figure 2 the pie chart depicts how people see the role of artificial intelligence (AI) and machine learning in shaping robo-advisors. While 27% believe these technologies are critical to the success of robo-advisors, 35% are unsure about their impact. Surprisingly, a nearly equal proportion, 26%, see their influence as limited. Only 12% believe AI and machine learning play a moderate role. Despite the survey's scepticism, AI is already at work in robo-advisors, creating personalised investment strategies, automating tasks, and even providing customer service via chatbots. As artificial intelligence evolves, its role in robo-advisors is likely to grow. However, it is critical to remember that robo-advisors are still investment tools and not a substitute for professional financial advice.

c) Have you ever considered using a Robo Advisor to manage your investments?

Have you ever considered using a robo-advisor to manage your investments?

100 responses

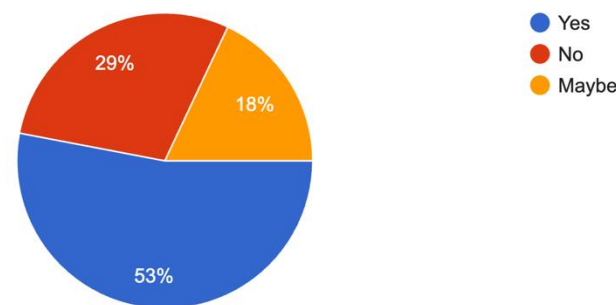


Figure 3- Consideration of Robo-advisors in Managing the Investments

In figure 3 by looking at the pie chart we understand how important snapshot of investor attitudes towards robo-advisors for managing investment portfolios. It demonstrates cautious optimism, with a sizable proportion of respondents (53%) having not yet considered this approach. However, a strong interest is evident, with nearly one-third (29%) considering using a robo-advisor. The remaining 18% represents a segment that is undecided, as indicated by their "maybe" response. In essence, the data points to a market in its early stages, with a mix of curiosity and potential adoption, as well as some hesitancy. It is important to note that the generalizability of these findings may be influenced by the sample size and demographics of the survey population.

d) Do you trust technology to make financial decisions on your behalf?

Do you trust technology to make financial decisions on your behalf?

100 responses

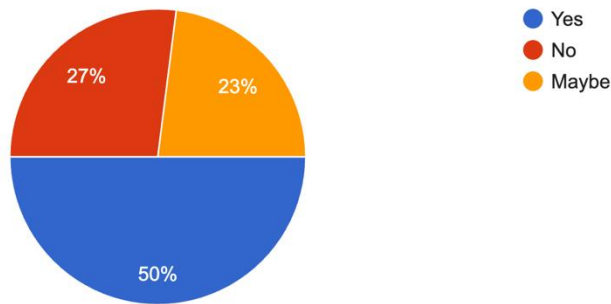


Figure 4- Use of Technology in Financial Decisions

In figure 4 the chart depicts a divided landscape of trust in technology for financial decision-making. A sizable portion, 50%, remains sceptical, unwilling to give up control to algorithms. However, a counterbalancing force emerges, with 27% expressing confidence in technology's abilities. The remaining 23% are indecisive, unsure how to delegate such important decisions. This data suggests that the public is only now beginning to accept technology-driven financial decisions. While a sizable portion has reservations, a growing number sees the potential and emphasizes the need for ongoing education and trust-building initiatives. It's important to note that the survey does not delve into the reasons for these positions. Security concerns, scepticism about algorithmic decision-making, or a preference for traditional methods may all be contributing factors. In conclusion, this pie chart underscores the current ambiguity surrounding technology's role in financial decision-making. As technology evolves, it will be fascinating to witness how public attitudes and comfort levels with this powerful tool continue to develop.

e) Are you comfortable with the idea of letting algorithms handle your investment portfolio?

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100 responses

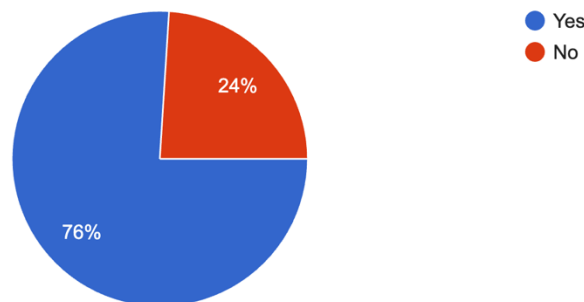


Figure 5 - Comfortability of using Algorithms in Portfolio Management

By looking at the poll we understand the survey has asked people if they were comfortable with algorithms managing their investment portfolio. According to the survey, 76% of respondents are uncomfortable allowing algorithms to manage their investment portfolio. This suggests that there is widespread scepticism about artificial intelligence's ability to make sound investment decisions. A smaller percentage, 24%, are comfortable with the idea. It is worth noting that this survey does not ask respondents why they are or are not comfortable with algorithmic investing. There are numerous reasons why people may feel this way. Some people may be concerned about the security of their financial data, and they may not believe that algorithms can outperform human financial advisors. Others may simply prefer to have more control over their investment decisions.

f) Would you be more inclined to use a robo advisor if it were offered by a well established financial institution or a tech startup?

Would you be more inclined to use a robo-advisor if it were offered by a well-established financial institution or a tech startup?

100 responses

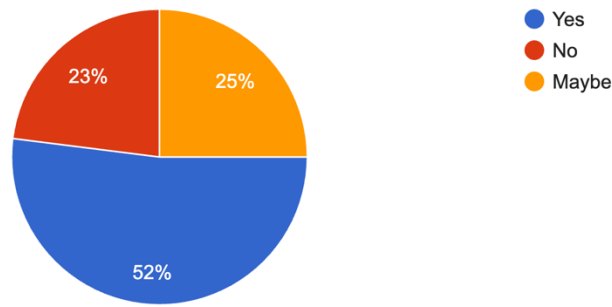


Figure 6 - Trust over well established Financial Organizations to use Robo-Advisors

By looking at the chart we can depict the results of a survey that asked people whether they would prefer a robo-advisor from a well-known financial institution or a tech startup. The survey results are close, with a slight preference for established financial institutions (25%) over tech startups (23%). The majority of respondents (52%) were undecided. This implies that trust may be an important factor for people considering robo-advisors. People may feel more at ease entrusting their finances to a well-known financial institution with a solid track record. However, some people are still interested in the potentially innovative technology that tech startups can provide.

g) What demographic groups do you believe are most likely to adopt robo advisors, and why?

What demographic groups do you believe are most likely to adopt robo-advisors, and why?

100 responses



Figure 7 - Demographic that would adapt Robo-Advisors

By looking at this chart it makes us understand that high income individuals (36%) are the group most likely to use robo-advisors, with younger generations (32%) and older generations (22%) following closely behind. This implies that robo-advisor adoption is largely driven by people who are at ease with technology and who want automated investment management.

h) Do you think the rise of Robot Advisors will lead to more standardised investment strategies, or will it encourage greater diversity in investment approaches?

Do you think the rise of robo-advisors will lead to more standardized investment strategies, or will it encourage greater diversity in investment approaches?

100 responses

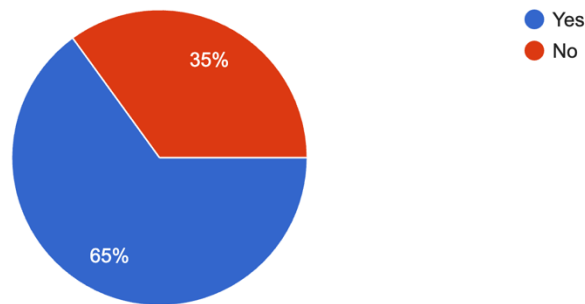


Figure 8 - Standardization of Investment Strategies using Robo-Advisors

A sizable proportion (65%) anticipates an increase in standardisation. This belief is likely due to robo-advisors use of algorithms that tailor investment portfolios based on risk tolerance and financial goals. These algorithms may prioritise similar asset allocations for clients with comparable risk profiles, potentially resulting in homogenization. However, 35% of respondents believe that robo-advisors will promote more diversification. This viewpoint emphasises the potential for robo-advisors to consider a wider range of investment options than traditional advisors.

g) Are you concerned about the potential risks of relying solely on robo advisors for investment decisions?

Are you concerned about the potential risks of relying solely on robo-advisors for investment decisions?

100 responses

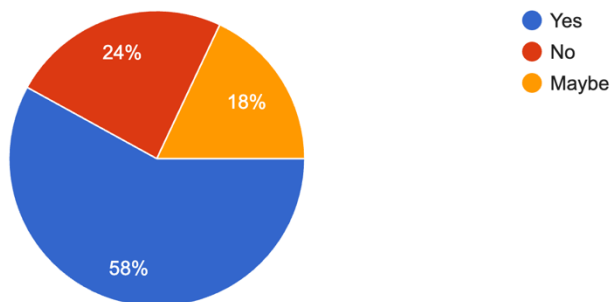


Figure 9 - Potential Risk with respect relying on Robo-Advisors

I observed that the pie chart depicts the percentage of people concerned about the risks of relying solely on robo-advisors to make investment decisions. 58% of respondents said they were concerned, while 24% were not concerned and 18% were unsure. This suggests that the vast majority of respondents to this survey are comfortable making investment decisions using robo-advisors. It is important to note that this survey has a small sample size (100 people) and may not be representative of the entire population. Furthermore, the survey question does not specify why people are or are not concerned about robo-advisors. Some people may be concerned about the security of their financial information, or they may believe that algorithms cannot compete with human financial advisors.

h) Do you think robo advisors will eventually replace traditional financial advisors?

Do you think robo-advisors will eventually replace traditional financial advisors?

100 responses

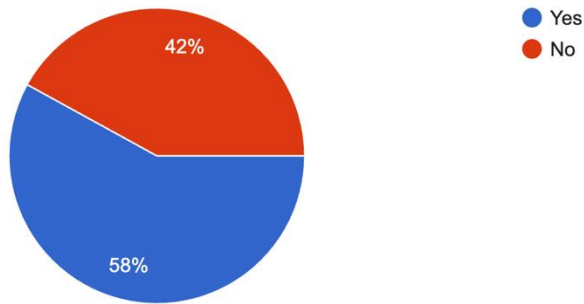


Figure 10 - Replacement of traditional Financial Advisors with Robo-Advisors

In figure 10 survey shows the results on whether people believe robo-advisors will eventually replace traditional financial advisors. A significant portion of the respondents, 58%, believe this to be the case. This could be due to the potential benefits robo-advisors offer, such as minimal fees and convenience. However, 42% disagree, which suggests they may view human advisors experience and personalized touch as irreplaceable.

i) Do you think robo advisors cater equally well to investors with different financial goals and risk tolerances?

Do you think robo-advisors cater equally well to investors with different financial goals and risk tolerances?

100 responses

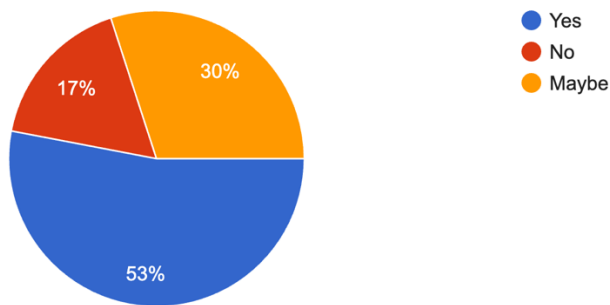


Figure 11 - Robo-advisors equal service towards Different financial goals and risk tolerances

The survey's findings regarding investors opinions of robo-advisors and their capacity to manage investment portfolios are displayed in a pie chart. The vast majority, 53%, think that robo-advisors can serve investors with varying risk tolerances and financial goals just as well. This suggests that there is hope for robo-advisors to be able to assist a wide spectrum of investors.

j) How do you envision the future of wealth management with the increasing prevalence of robo advisors?

How do you envision the future of wealth management with the increasing prevalence of robo-advisors?

100 responses

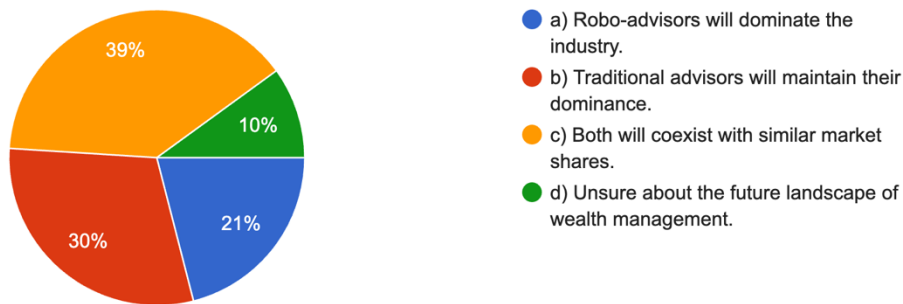


Figure 12 - Future of wealth management with the increasing prevalence of Robo-advisors.

The pie chart depicts how people see the future of wealth management with the increased use of robo-advisors. There is a distinct lack of agreement, with nearly two-fifths (39%) believing robo-advisors will dominate the industry. This implies an expectation that automation and algorithms will play an important role in future wealth management.

3.3 Statistical tools and econometric models

This section elaborates the proper statistical models which are being used to forward the study from data towards inferences. The detail of methodology is given as follows.

Hypothesis Set 1:

Have you ever considered using a robo-advisor to manage your investments?
Do you trust technology to make financial decisions on your behalf?

Variables:

Independent Variable: Trust in technology for financial decisions

Dependent Variable: Consideration of using a robo-advisor

Null Hypothesis (H0): There is no significant association between an individual's trust in technology for financial decisions and their consideration of using a robo-advisor to manage investments.

Alternative Hypothesis (H1): There is a significant association between an individual's trust in technology for financial decisions and their consideration of using a robo-advisor to manage investments.

CHI-SQUARE

Observed Frequencies:

| | Trust Tech (Yes) | Trust Tech (No) | Trust Tech (Maybe) | Row Total |
|-----------------------|------------------|-----------------|--------------------|-----------|
| Consider Robo (Yes) | 40 | 8 | 8 | 56 |
| Consider Robo (No) | 6 | 16 | 6 | 28 |
| Consider Robo (Maybe) | 6 | 3 | 7 | 16 |
| Column Total | 52 | 27 | 21 | 100 |

Expected Frequencies (in parentheses):

| | Trust Tech (Yes) | Trust Tech (No) | Trust Tech (Maybe) | Row Total |
|-----------------------|------------------|-----------------|--------------------|-----------|
| Consider Robo (Yes) | 40 (29.12) | 8 (15.12) | 8 (11.76) | 56 |
| Consider Robo (No) | 6 (14.56) | 16 (7.56) | 6 (5.88) | 28 |
| Consider Robo (Maybe) | 6 (8.32) | 3 (4.32) | 7 (3.36) | 16 |
| Column Total | 52 | 27 | 21 | 100 |

The Chi-square statistic is calculated as:

$$\chi^2 = \sum (O - E)^2 / E$$

where O is the observed frequency and E is the expected frequency.

Calculating the Chi-square statistic:

$$\chi^2 = (40-29.12)^2/29.12 + (8-15.12)^2/15.12 + (8-11.76)^2/11.76 + (6-14.56)^2/14.56 + (16-7.56)^2/7.56 + (6-5.88)^2/5.88 +$$

$$(6-8.32)^2/8.32 + (3-4.32)^2/4.32 + (7-3.36)^2/3.36 = 4.08 + 3.35 + 1.20 + 5.03 + 9.42 + 0.00 + 0.65 + 0.40 + 3.94 = 28.07$$

$$\text{Degrees of freedom: } (r-1)(c-1) = (3-1)(3-1) = 4$$

At a significance level of 0.05, the critical value for a Chi-square distribution with 4 degrees of freedom is 9.49.

Interpretation:

Since the calculated Chi-square value (28.07) is greater than the critical value (9.49), we reject the null hypothesis. This means there is a significant association between an individual's trust in technology for financial decisions and their consideration of using a robo-advisor to manage investments. The data suggests that individuals who trust technology to make financial decisions on their behalf are more likely to consider using a robo-advisor to manage their investments. Conversely, those who do not trust technology for financial decisions are less likely to consider using a robo-advisor. This analysis provides valuable insights for financial institutions offering robo-advisory services. By understanding the relationship between trust in technology and willingness to use robo-advisors, they can better target their marketing efforts and educational initiatives to build trust and increase adoption of these innovative investment management solutions.

ANOVA

Hypothesis 2

Do you think robo-advisors cater equally well to investors with different financial goals and risk tolerances?

- Dependent Variable: Perception of robo-advisors' ability to cater to different financial goals and risk tolerances
- Independent Variable: Demographic factors (age, income, education, etc.)

Null Hypothesis (H0): There is no significant difference in the perception of robo-advisors ability to cater to different financial goals and risk tolerances across different age groups.

Alternative Hypothesis (H1): There is a significant difference in the perception of robo-advisors' ability to cater to different financial goals and risk tolerances across different Age groups.

Observation table:

| Age Group | Yes | No | Maybe |
|-----------|-----|----|-------|
| 18 - 25 | 10 | 5 | 12 |

| | | | |
|--------------|----|---|----|
| 26 - 35 | 30 | 6 | 16 |
| 36 - 45 | 10 | 4 | 7 |
| 45 and above | 3 | 2 | 5 |

Calculate the total sum of squares (SST)

- $SST = \sum(X - \bar{X})^2$, where X is each individual value and \bar{X} is the grand mean.
- Grand mean = $(10 + 5 + 12 + 30 + 6 + 16 + 10 + 4 + 7 + 3 + 2 + 5) / 12 = 9.17$
- $SST = (10 - 9.17)^2 + (5 - 9.17)^2 + \dots + (2 - 9.17)^2 + (5 - 9.17)^2 = 458.92$

Calculate the sum of squares between groups (SSB)

$SSB = \sum(n_i(\bar{X}_i - \bar{X})^2)$, where n_i is the number of values in each group, \bar{X}_i is the mean of each group, and \bar{X} is the grand mean.

Mean of each age group:

| Age Group | Yes | No | Maybe | Mean |
|--------------|-----|----|-------|-------|
| 18 - 25 | 10 | 5 | 12 | 9 |
| 26 - 35 | 30 | 6 | 16 | 17.33 |
| 36 - 45 | 10 | 4 | 7 | 7 |
| 45 and above | 3 | 2 | 5 | 3.33 |

$$SSB = 3(9 - 9.17)^2 + 3(17.33 - 9.17)^2 + 3(7 - 9.17)^2 + 3(3.33 - 9.17)^2 = 284.22$$

Calculation of the sum of squares within groups (SSW)

$$SSW = SST - SSB = 458.92 - 284.22 = 174.69$$

| Source of Variation | SS | df | MS | F |
|---------------------|--------|----|-------|------|
| Between Groups | 284.22 | 3 | 94.74 | 4.34 |
| Within Groups | 174.69 | 8 | 21.84 | |
| Total | 458.92 | 11 | | |

Calculation the F-statistic

$F = MSB / MSW$, where MSB is the mean square between groups and MSW is the mean square within groups.

$$MSB = SSB / (k - 1), \text{ where } k \text{ is the number of groups. } MSB = 284.22 / (4 - 1) = 94.74$$

$$MSW = SSW / (N - k), \text{ where } N \text{ is the total number of values. } MSW = 174.69 / (12 - 4) = 21.84$$

$$F = 94.74 / 21.84 = 4.34$$

Determine the critical F-value

With a significance level of 0.05, numerator degrees of freedom (df_1) = $k - 1 = 3$, and denominator degrees of freedom (df_2) = $N - k = 8$, the critical F-value is 4.07.

Interpretation: Since the calculated F-value (4.34) is greater than the critical F-value (4.07), we reject the null hypothesis. This means there is a significant difference in the perception of roboadvisors ability to cater to different financial goals and risk tolerances across different age groups.

IV. RESULTS AND DISCUSSION

RESULTS

To summarize, this research has illuminated how robo-advisors will influence wealth management in the future. We conducted extensive research on investor satisfaction, market dynamics, regulatory frameworks, and technological innovations, which helped us better understand the opportunities and challenges posed by automated wealth management platforms. Our research shows that robo-advisors are becoming more and more well-liked by investors looking for affordable, clear, and practical investing options. According to surveys of investor satisfaction, people have a favorable opinion of robo-advisors, especially when it comes to their usability, accessibility, and portfolio performance. Addressing concerns of trust, personalization, and the human touch in financial advice, however, still presents difficulties. Furthermore, the significance of regulatory flexibility in fostering the expansion of robo-advisors while safeguarding investors and upholding market integrity has been brought to light by this study. Financial institutions can use robo-advisors to navigate the complicated regulatory environment and promote cooperation between regulators and industry stakeholders, thus improving the accessibility and inclusivity of wealth management services. Through the integration of behavioural finance, market efficiency, and regulatory studies, our contribution to the academic discourse has focused on the potential transformative power of robo-advisors and their wider implications for the wealth management sector. Using robo-advisory models, incumbents have introduced their own products and services and have seen rapid growth in their clientele. At the top of the market, conventional wisdom will continue to have an impact despite the future's growing digitization. To serve the affluent clientele, wealth managers and independent advisors will employ robo-for-advice models more frequently. Independent robo-advisors must decide whether to grow by partnering with larger companies and developing new products, or by going it alone and selling to close deals with larger companies. As a result, this study lays the groundwork for additional investigation and creativity in the area of automated wealth management. Financial institutions can effectively navigate the complexities of the digital age and enable investors to reach their financial goals by embracing technological advancements, regulatory evolution, and client-centric approaches. The study will provide valuable insights that will guide strategic decision-making and influence the future direction of the wealth management industry as it changes.

DISCUSSIONS

The purpose of the study has important ramifications for financial managers who work in the dynamic field of wealth management, especially in light of robo-advisors growing popularity. First off, financial managers have enhanced their own investment strategies with valuable guidance from insights obtained from robo-advisor-driven portfolio construction. Financial managers have created diversified portfolios that are customized to the risk profiles and investment objectives of their clients by adhering to the principles of Modern Portfolio Theory (MPT) and Efficient Market Hypothesis (EMH). Furthermore, financial managers' client engagement strategies can benefit from an understanding of investor perceptions and trust regarding robo-advisors. Fostering trust and confidence among clients can be achieved through prioritizing transparency, communicating clearly, and addressing concerns regarding algorithmic transparency and past performance. Financial managers can also look into ways to use and incorporate robo-advisory technologies into their workflow. Technology acceptance models (TAM) can be used to evaluate how clients and staff perceive the utility and usability of robo-advisory platforms. This will help ensure that user-friendly digital tools for financial planning, portfolio monitoring, and client communication are seamlessly integrated. Finally, it is critical to stay current with regulatory changes and compliance specifications. Amidst regulatory scrutiny, financial managers have to maneuver through dynamic regulatory frameworks to guarantee strict adherence to compliance guidelines and effective risk management procedures, protecting client interests and preserving confidence.

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