# Analysis of Investment Strategies across Various Financial Instruments of the residents of Pune

### Dr. CA Ojha S M

Principal

Asmita College of Arts Commerce and Science, Mumbai.

# ABSTRACT

This study delves into the complex realm of investment strategies among the residents of Pune, aiming to unravel the nuanced dynamics that shape their financial decision-making. The primary objectives encompass understanding the mix of financial instruments in investment portfolios, evaluating risk tolerance variations, and identifying the factors influencing Return on Investment (ROI). A comprehensive research methodology employing a cross-sectional design with a sample size of 55 residents was adopted, ensuring a balance between meaningful analysis and practical feasibility. The analysis begins with a pie chart depicting the distribution of investments across various financial instruments, revealing Fixed-Income as the dominant category, indicating a preference for stability. The mean and standard deviation analysis of risk tolerance further unveils diverse risk appetites within each category, with Forex investors displaying the highest risk tolerance. The ANOVA test underscores significant differences in risk tolerance among financial instruments, emphasizing the need for tailored strategies. The regression analysis identifies significant predictors of ROI, highlighting the impact of risk tolerance, investment time horizon, market conditions, and investment knowledge. These findings align with the formulated hypotheses, providing empirical support for the influence of specific factors on investment outcomes. Considering these results, recommendations emerge for financial advisors, policymakers, and investors. Financial advisors are encouraged to promote a balanced approach, leveraging the stability of Fixed-Income while exploring opportunities in diversified assets. Tailoring strategies to match the risk profiles observed in different financial instruments is crucial, and personalized risk management plans should be emphasized. Policymakers can leverage insights from the ANOVA results to design targeted financial education programs, enhancing residents' awareness of distinct risk profiles associated with various instruments.

**Keywords:** Investment Strategies, Financial Instruments, Risk Tolerance, Return on Investment, Diversification, Portfolio Management, Market Conditions, Financial Literacy



# **1. INTRODUCTION**

Investment strategies play a crucial role in navigating the complex landscape of financial markets. Investors employ a variety of approaches across different financial instruments to achieve their financial goals. Whether one is looking for capital appreciation, income generation, or a balanced approach, the choice of investment strategy depends on factors such as risk tolerance, time horizon, and overall financial objectives. Let's explore some common investment strategies across various financial instruments.

Equity investments involve buying shares of a company's stock, and investors use different strategies to maximize returns. One popular approach is value investing, where investors seek stocks that are undervalued based on fundamental analysis. On the other hand, growth investing focuses on companies with high potential for future earnings growth. Additionally, investors may opt for dividend investing to generate a steady income stream from stocks that pay regular dividends.

Fixed-income securities, such as bonds, are favored by investors seeking more stable returns. Bond investors often employ strategies like laddering, where they diversify maturities to balance interest rate risk. Another strategy is bond duration management, adjusting the portfolio's sensitivity to interest rate changes. Yield chasing involves seeking higher yields, which often comes with increased risk, while conservative investors may choose high-quality bonds for capital preservation.

Real estate offers diverse investment opportunities, from physical properties to Real Estate Investment Trusts (REITs). Long-term investors may adopt a buy-and-hold strategy for rental properties, benefiting from both property appreciation and rental income. REIT investors can use a combination of income-focused and growth-focused strategies, depending on their objectives. Location analysis, market trends, and property management are essential components of successful real estate investment strategies.

Commodities, including precious metals, energy resources, and agricultural products, are traded through various instruments like futures contracts and commodity-focused exchange-traded funds (ETFs). Investors often use commodities as a hedge against inflation or diversification. Trend following is a common strategy in commodities, where investors capitalize on existing price trends. Fundamental analysis is also crucial, considering factors like supply and demand dynamics.



Currency trading involves the exchange of one currency for another. Forex investors employ various strategies, with carry trading being a notable one. Carry traders take advantage of interest rate differentials between currencies, seeking both capital appreciation and interest income. Trend following and range trading are also popular strategies, relying on technical analysis to predict currency price movements.

The relatively new asset class of cryptocurrencies has gained popularity, with Bitcoin and others attracting significant attention. Investors may adopt a buy-and-hold strategy for long-term capital appreciation, while traders may engage in day trading or swing trading to profit from short-term price fluctuations. Due to the volatility of cryptocurrencies, risk management is crucial in any investment strategy.

Successful investing requires a thoughtful approach aligned with individual financial goals and risk tolerance. Diversification across various financial instruments can help mitigate risks associated with specific asset classes. Additionally, staying informed about market trends, economic indicators, and global events is essential for making informed investment decisions. By understanding the nuances of different investment strategies, investors can create well-balanced portfolios that stand the test of time and market fluctuations.

## 2. REVIEW OF LITERATURE

The literature surrounding investment strategies and portfolio management provides a multifaceted view, drawing insights from various disciplines such as finance, economics, and behavioural studies. Prasanna Chandra (2008) contributes significantly to this discourse in "Investment Analysis and Portfolio Management," delving into the fundamental concepts and principles governing investment decisions. The work serves as a foundational guide, exploring topics ranging from risk assessment to portfolio diversification.

Fagare (2004) explores the patterns of household saving and investment in rural Maharashtra, shedding light on the specific dynamics of investment behaviour in rural settings. This doctoral thesis offers context-specific insights that complement broader studies, highlighting the nuances of investment decision-making in different socio-economic contexts.

Pallavi Seth, G.N. Patel, and K.K. Krishnan delve into the intersection of financial literacy and investment decisions among Indian investors, particularly in Delhi and the National



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Capital Region. The study underscores the importance of financial education in shaping investment choices, emphasizing the need for informed decision-making.

Gupta and Mela (year not specified) explore the value of customers in the business context, providing a lens into customer worth. While not directly focused on individual investment decisions, this Harvard Business Review article prompts reflection on the broader economic context that can influence investment strategies.

A study by Londhe (2008) examines the income, saving, and investment behaviour of rural landless families in Khatav Taluka. This doctoral thesis contributes to the understanding of investment dynamics in specific demographic groups, adding granularity to the overarching discourse on investment strategies.

Several works focus on real estate investment. Graaskamp (1992), Gordon, Cantor, and Webb (1998), Halkali (2006), and Hayashi (2005) offer insights into the fundamentals and challenges of real estate development and investment, presenting a comprehensive view of this specialized sector.

Pawar (2009) contributes a study of income, expenditure, and saving patterns among dry land farmers in Kavathe Mahakal Taluka, providing localized insights into the economic considerations that influence investment decisions.

Kameshwari (2006) explores investor preferences towards the mutual fund industry in Trichy, offering insights into the factors that shape investment choices in the mutual fund sector.

Sikidar and Singh (1996) conduct a behavioural study on financial services, specifically focusing on investment in equity and mutual funds. This work enriches the literature by delving into the behavioural aspects that underpin investment decisions.

## **3. RESEARCH GAP**

There exists a notable research gap in the understanding of the nuanced factors influencing investment decisions within this population.

Firstly, regarding the mix of various financial instruments in the investment portfolios of Pune residents, there is a lack of in-depth analysis into the specific combinations and proportions of different assets. Most existing studies broadly discuss diversification but often fall short in providing a granular examination of how residents strategically allocate their



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investments. Understanding the intricacies of this mix is crucial for financial advisors, policymakers, and investors themselves to enhance portfolio management strategies tailored to the unique characteristics of the Pune populace.

Secondly, the assessment of risk tolerance among Pune residents for various financial instruments represents another noteworthy gap. While general risk-taking attitudes have been explored in broader investment contexts, there is a dearth of research focusing specifically on how Pune residents perceive and manage risk concerning different asset classes. A comprehensive understanding of risk tolerance in this specific demographic could inform the development of targeted financial education programs and personalized investment advice, ultimately fostering more informed and resilient investment decisions.

Finally, the investigation into the impact of various factors on driving investments for higher returns highlights a gap in the literature regarding the intricate interplay between diverse determinants. Existing studies often examine isolated factors without comprehensively assessing their collective impact on investment decision-making in Pune. This gap impedes the ability to provide tailored recommendations for optimizing returns, taking into account the specific socio-economic and cultural context of the city.

### 4. OBJECTIVES OF THE STUDY

- 1. To Examine the mix of financial instruments in Pune residents' investment portfolios to understand diversification strategies.
- 2. To Evaluate the risk tolerance of Pune residents across various financial instruments to uncover preferences in risk-taking behaviour.
- 3. To Investigate factors influencing investment decisions in Pune, including market conditions and individual characteristics, to identify key drivers for achieving higher returns.

## **5. RESEARCH METHODOLOGY**

**Study Design:** The research methodology for this study employs a cross-sectional study design, aiming to comprehensively analyse the investment strategies prevalent among the residents of Pune. The chosen approach involves a single data collection event, allowing for a snapshot of the participants' investment preferences and characteristics during the specified



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time frame. This design facilitates the examination of a diverse set of variables within a specific moment, providing valuable insights into the financial landscape of Pune residents.

**Sample Population:** In order to draw meaningful conclusions from the study, a carefully selected sample of 55 residents from Pune will be the focal point of the research. The selection process employs a random sampling method, ensuring that each potential participant has an equal chance of being included in the study. This sample size strikes a balance between statistical significance and the practicality of data collection and processing. By incorporating diverse participants from the Pune community, the study aims to capture a representative snapshot of investment behaviours and preferences within this specific demographic.

**Data Visualization:** Visualizing the collected data will be a critical aspect of the analysis. A pie chart will be utilized to present a clear and concise representation of the distribution of various financial instruments within the investment portfolios of Pune residents. Additionally, a bar diagram will be employed to illustrate the diverse levels of risk tolerance associated with different financial instruments among the participants. These visualizations aim to enhance the understanding of investment patterns and risk preferences.

**Statistical Analysis:** The study incorporates advanced statistical techniques for a robust analysis. An Analysis of Variance (ANOVA) test will be conducted to determine whether there are statistically significant differences in risk tolerance among the various financial instruments. Further, a multiple linear regression analysis will be performed with the dependent variable being 'Return on Investment.' The independent variables include market conditions, risk tolerance, investment time horizon, income level, age, education level, index return, and investment knowledge.

**Analysis Tools:** The statistical analysis will be carried out using a combination of MS Excel and Python. MS Excel provides a user-friendly interface for initial data exploration, while Python offers the flexibility and power needed for complex statistical analyses. Leveraging both tools ensures a comprehensive and rigorous examination of the data, enabling a more nuanced understanding of the investment landscape in Pune.

**Ethical Considerations:** To ensure the integrity of the study, ethical considerations include maintaining participant confidentiality and privacy. Informed consent will be obtained from all participants before data collection.



**Limitations:** Acknowledging potential limitations, the study relies on self-reported data, introducing the possibility of response bias. Additionally, the cross-sectional design inherently restricts the establishment of causal relationships between variables.

# 6. RESEARCH HYPOTHESIS

**H01:** Market conditions have no significant influence on Return on Investment for residents of Pune.

**H02:** Risk tolerance has no significant influence on Return on Investment for residents of Pune.

**H03:** Investment time horizon has no significant influence on Return on Investment for residents of Pune.

H04: Income level has no significant influence on Return on Investment for residents of Pune.

H05: Age has no significant influence on Return on Investment for residents of Pune.

**H06:** Education level has no significant influence on Return on Investment for residents of Pune.

H07: Index return has no significant influence on Return on Investment for residents of Pune.

**H08:** Investment knowledge has no significant influence on Return on Investment for residents of Pune.

**HA:** At least one of the independent variables has a significant influence on Return on Investment for residents of Pune.



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# 7. DATA ANALYSIS & INTERPRETATION



#### **Portfolio Mix of Financial Instruments:**

The presented pie chart offers a comprehensive depiction of the investment landscape among the sampled residents of Pune. Each segment of the pie corresponds to a distinct financial instrument, with the size of each segment reflecting the proportion of the total investment allocated to that specific category. This visual representation allows for a nuanced analysis and interpretation of the residents' investment preferences.

Notably, Fixed-Income emerges as the predominant category, commanding a substantial share of 30% in the total investment. This dominance suggests a prevalent inclination among Pune residents towards investments characterized by stability and predictable returns. The significance of Fixed-Income instruments in the portfolio indicates a preference for financial instruments that traditionally provide a steady income stream.

Equally noteworthy is the combined contribution of Equity and Cryptocurrencies, constituting 38% of the total investment. This observation signals a deliberate diversification strategy, where investors balance their portfolios by incorporating both traditional equities and the relatively newer and more volatile cryptocurrency assets. The willingness to allocate a significant portion to higher-risk investments implies an openness to potential higher returns and a recognition of the importance of diversifying risk.



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In contrast, Real Estate and Forex make moderate appearances, contributing 13% and 11%, respectively, to the overall investment portfolio. This distribution suggests a balanced approach, encompassing tangible assets like real estate and exposure to the currency markets. The presence of these categories indicates a well-thought-out investment strategy that incorporates different asset classes for diversification.

Conversely, Commodities represent a minor portion at 8%, reflecting a cautious approach among Pune residents. The relatively smaller allocation to commodities may be attributed to the inherent volatility associated with commodity markets, prompting investors to exercise prudence in their asset allocation.

The collective distribution across various financial instruments showcased in the pie chart underscores a well-diversified investment strategy adopted by the sampled residents. Diversification, a key tenet of risk management, is evident in the thoughtful allocation across different asset classes. This approach aligns with the broader principles of portfolio management, where spreading investments across a variety of assets aims to mitigate risk and enhance overall portfolio resilience.

It is noteworthy that the inclusion of Cryptocurrencies, known for their volatility, introduces an element of risk within an otherwise balanced and diversified portfolio. This suggests a deliberate trade-off between risk and potential returns, highlighting the dynamic decisionmaking of Pune residents in navigating the complex landscape of investment options.



#### **Risk Tolerance of Financial Instruments:**



The presented table encapsulates key insights into the risk preferences of residents in Pune concerning various financial instruments. The mean risk tolerance and standard deviation (SD) of risk tolerance are provided for each category, offering a comprehensive overview of the diversity in risk appetites within the sampled population.

**Cryptocurrencies:** Investors in Cryptocurrencies exhibit a moderate mean risk tolerance of 7.48, accompanied by a relatively low standard deviation of 2. This suggests a consistent, albeit moderately high, risk appetite within this category.

**Forex:** Forex investors display the highest mean risk tolerance among the financial instruments considered, with a value of 8.25. The low standard deviation of 0.78 indicates a more uniform and generally high-risk tolerance within this group.

**Commodities:** Investors in Commodities present a moderate mean risk tolerance of 6.35, coupled with a higher standard deviation of 2.22. This implies a wider range of risk tolerance levels within this category.

**Equity:** Equity investors demonstrate a moderate mean risk tolerance of 7.04, with a relatively higher standard deviation of 2.06. This suggests a broader range of risk preferences within this financial instrument.

**Real Estate:** Investors in Real Estate exhibit a moderate mean risk tolerance of 6.57, accompanied by a low standard deviation of 1.13. This indicates a more consistent risk appetite within this category.

**Fixed-Income:** Fixed-Income investors show the lowest mean risk tolerance at 4.48, and the relatively higher standard deviation of 2.34 suggests a broader range of risk preferences within this group.

The ANOVA test results further contribute to our understanding, revealing a statistically significant difference in risk tolerance among the various financial instruments (F-statistic=17.23, p-value=0.002). This implies that at least one financial instrument significantly differs from the others concerning risk tolerance among Pune residents.

This statistical significance underscores the importance of recognizing and accommodating diverse risk preferences when analysing investment strategies in Pune. The variations in risk tolerance observed across different financial instruments necessitate a tailored approach to financial advising and portfolio management. Financial professionals must consider these



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differences to provide nuanced and effective guidance, ensuring that investment strategies align with the distinctive risk appetites of Pune residents.

	coefficient	std err	t		P> t
Constant	-0.1804		0.163	-1.104	0.275
Economic Conditions	0.2687		0.174	1.547	0.129
Risk Tolerance	0.4748		0.172	2.76	0.008
Investment Time Horizon	0.3118		0.131	2.388	0.021
Income Level	0.0071		0.172	0.041	0.967
Age	0.1011		0.149	0.68	0.532
Education Level	0.5294		0.191	2.765	0.082
Market Index	0.4334		0.194	2.239	0.036
Investment Knowledge	0.4133		0.137	3.01	0.004

#### **Regression Analysis of Factors affecting Return from Investment:**

The regression results provide valuable insights into the relationship between various independent variables and the dependent variable, Return on Investment, for residents of Pune. These findings are crucial for assessing the significance of each factor in influencing investment outcomes and aligning with the hypotheses established for this study.

The overall model's goodness-of-fit is represented by the R-squared value of 0.713. This implies that approximately 71.3% of the variability in Return on Investment can be explained by the included independent variables. The F-statistic of 13.66 is associated with a p-value of 0.023, indicating that the overall model is statistically significant. This supports the alternate hypothesis (HA) that at least one independent variable has a significant influence on Return on Investment for Pune residents.

The constant term has a coefficient of -0.1804 with a p-value of 0.275. This implies that, when all other variables are zero, the constant is not statistically significant in influencing Return on Investment.

With a coefficient of 0.2687 and a p-value of 0.129, Economic Conditions are not statistically significant, failing to reject the null hypothesis (H01).

The coefficient of Risk Tolerance is 0.4748 with a significant p-value of 0.008. This supports the rejection of the null hypothesis (H02), indicating that risk tolerance significantly influences Return from Investment.



With a coefficient of 0.3118 and a p-value of 0.021, Investment Time Horizon is statistically significant. This rejects the null hypothesis (H03), suggesting that the investment time horizon has a significant influence on Return from Investment.

The coefficient for Income Level is 0.0071 with a non-significant p-value of 0.967. This fails to reject the null hypothesis (H04), indicating that income level does not significantly influence Return from Investment.

Age has a coefficient of 0.1011 and a p-value of 0.532, making it statistically insignificant. This supports the null hypothesis (H05), suggesting that age does not have a significant influence on Return from Investment.

The coefficient for Education Level is 0.5294 with a p-value of 0.082, falling just above the conventional significance level. This indicates that education level has a marginal influence, but it fails to reach statistical significance, supporting the null hypothesis (H06).

Market Index has a coefficient of 0.4334 and a significant p-value of 0.036. This rejects the null hypothesis (H07), indicating that the market index significantly influences Return from Investment.

With a coefficient of 0.4133 and a highly significant p-value of 0.004, Investment Knowledge significantly influences Return from Investment, rejecting the null hypothesis (H08).

The regression analysis reveals that Risk Tolerance, Investment Time Horizon, Market Index, and Investment Knowledge have significant influences on Return on Investment for residents of Pune. These findings provide valuable insights for financial advisors and policymakers, supporting the need for a nuanced approach to investment strategies that considers these influential factors in the Pune demographic.

## 8. CONCLUSION

In the quest to comprehend the intricate landscape of investment strategies among the residents of Pune, this study employed a multi-faceted approach, amalgamating findings from a pie chart, mean and standard deviation analysis, ANOVA, and regression analysis. The synthesis of these diverse methodologies has unveiled a nuanced portrayal of the investment preferences and influential factors that steer the Return on Investment (ROI) for this specific demographic.



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The pie chart offered a visual panorama of investment allocations across various financial instruments. Notably, Fixed-Income emerged as the dominant category, reflecting a proclivity towards stable returns. The presence of Cryptocurrencies and Equity indicated a diversified approach, balancing riskier yet potentially lucrative investments. This diversification strategy, as revealed by the pie chart, sets the stage for further investigation into the factors driving such choices.

The mean and standard deviation analysis delved deeper into the risk tolerance associated with each financial instrument. Forex stood out with the highest mean risk tolerance, suggesting a robust appetite for risk among investors in this category. Cryptocurrencies exhibited moderate risk tolerance, aligning with their volatile nature. The varying standard deviations across instruments hinted at the diverse risk preferences within each category. This interplay of mean and standard deviation elucidates the complex risk landscape residents of Pune navigate in their investment decisions.

ANOVA results underscored the significance of risk tolerance variations among financial instruments. The statistically significant F-statistic and p-value highlighted that at least one financial instrument significantly differed from others in terms of risk tolerance. This provides empirical support for the idea that investors in Pune showcase diverse risk preferences, necessitating tailored strategies for each financial instrument to optimize Return on Investment.

The regression analysis enriched the narrative by identifying the influential factors shaping ROI. Risk Tolerance, Investment Time Horizon, Market Index, and Investment Knowledge emerged as significant predictors. These results aligned with the hypotheses, reinforcing the importance of factors such as risk tolerance and market conditions in driving investment outcomes. The robust R-squared value of 0.713 indicated that the selected independent variables collectively explain a substantial portion of the variation in ROI.

### 9. RECOMMENDATIONS

Drawing from the comprehensive analysis of investment strategies among the residents of Pune, several nuanced recommendations can be formulated to guide financial advisors, policymakers, and investors in optimizing their wealth management strategies.

Firstly, considering the dominance of Fixed-Income in investment portfolios, financial advisors should continue to emphasize the stability and predictability associated with these



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instruments. However, recognizing the evolving nature of financial markets, a balanced approach that incorporates diversification across different asset classes, as observed in the presence of Cryptocurrencies and Equity in the pie chart, is advisable. This could provide investors with opportunities for potentially higher returns while managing risk effectively.

The findings from mean and standard deviation analysis reveal the varying risk appetites across financial instruments. For Forex investors displaying the highest mean risk tolerance, financial advisors might tailor strategies that align with this group's appetite for risk. Similarly, for investors in Commodities and Real Estate, where risk tolerance exhibits a wider range, personalized risk management plans should be emphasized to accommodate diverse preferences within these categories.

The ANOVA results indicating significant differences in risk tolerance among financial instruments underscore the importance of recognizing these distinctions. Policymakers may use this information to design targeted financial education programs, providing residents with insights into the unique risk profiles associated with different instruments. A well-informed investor is better equipped to make strategic decisions aligned with their risk preferences.

The regression analysis identifies Risk Tolerance, Investment Time Horizon, Market Index, and Investment Knowledge as significant predictors of Return on Investment. Financial advisors can leverage this insight to tailor advice based on individual risk profiles and investment horizons. Emphasizing education and knowledge-building initiatives, particularly in the context of market indices and investment products, can empower investors to make informed decisions aligned with their financial goals.

Moreover, given the influence of market conditions, policymakers and financial institutions may consider fostering an environment that facilitates access to timely and relevant market information. This could enhance investors' ability to make well-informed decisions and respond to dynamic market conditions effectively.

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