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A STUDY ON THE FACTORS INFLUENCING INDIVIDUAL INVESTOR BEHAVIOR IN IT SECTOR**SINDU KOPPA****LECTURER****JSS CENTRE FOR MANAGEMENT STUDIES****SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING****MYSORE****SHALINI .P****STUDENT****JSS CENTRE FOR MANAGEMENT STUDIES****SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING****MYSORE****ABSTRACT**

This study investigated factors influencing on individual investors behaviour in IT sectors and the most predominant and least factors that influence the individual investor to invest in IT sector. The study evidenced showing to understand how investors make their investment decisions in IT stocks. The study methodologically may be nested as a quantitative exploratory research wherein cross-sectional design with survey method using face to face personal interview with structured questionnaire was utilized to understand the proposed relationship. The study revealed that four factors that seem to be influencing the investor behaviour. They are Classical wealth maximisation, Firm Status, Neutral information and Commitment and recommendation. According to the respondents One factor was found the most influencing factor, where it was more than 50% of i.e. reputation of the it firm. Two factors were found the least influencing factors, where less than 20% of total respondents consider these factors as the least affecting factors on their behaviour. The least influencing factor was by order of importance: expected losses in other local investments, minimizing risk, expected losses in international financial markets, , family member opinions and gut feeling on the economy. The study mainly centred to understand the behaviour of investors while purchasing IT stocks. and therefore is limited to investors who are aware and competent to understand financial news and information.

KEYWORDS

Investor Behaviour, Stocks, IT.

1.0 INTRODUCTION

Research in behavioural finance is relatively new. Within behavioural finance it is assumed that information structure and the characteristics of market participants systematically influence individuals' investment decisions as well as market outcomes. According to behavioural finance, investor market behaviour derives from psychological principles of decision making, to explain why people buy or sell the stocks.

Behavioural finance focuses upon how investors interpret and act on information to make investment decisions. In addition, the behavioural finance places an emphasis upon investor behaviour leading to various market anomalies and in recent theoretical research suggests that psychological biases affect individual investors, causing them to make non-optimal decisions. While much behaviour have been identified in a rising stock price environment henceforth a *bull market*, could these behaviours be exhibited in a declining price environment, i.e., a *bear market*.

Behavioural finance is defined by Shefrin (1999)¹ as " a rapidly growing area that deals with the influence of Psychology on the behaviour of financial practitioners". Behavioural finance research is developing rapidly and now beginning to answer such questions as(see Taffler² 2002):

- Why, when all the evidence shows investors cannot beat the market on any systematic basis, they still resolutely do?
- How can we explain the stock market "bubbles"?
- Why is the volume of trading in financial markets so excessive and why is the stock market so volatile?
- Why do investment analysts have so much difficulty in identifying under-and overvalued stocks?
- Why do stock prices appear to under-react to bad news?

A better understanding of behavioural processes and outcomes is important for financial planners because an understanding of how investors generally respond to market movements should help investment advisors in devising appropriate asset allocation strategies for their clients.

This study aims at exploring the individual investor's behaviour investing in IT sector. The study is important for individual investor, IT companies listed, Market and Government. For investors as decision makers, the most influencing factor/ factors on their investment decision is crucial because this would affect their future financial plans. For companies, identifying the most influencing factors on their investors' behaviour would affect their future policies and strategies. Finally, for government, identifying the most influencing factors on investors' behaviour would affect the required legislations and the additional procedures needed in order to satisfy investors' desires and also to give more support to market efficiency.

Trading volume of the Market is highly fluctuating. Fluctuations in trading volume indicate somehow the abnormal behaviour of the investor, which needs to be studied and this is the motivation behind the current study.

1.1 OBJECTIVE OF THE STUDY:

- To study the factors influencing individual investors behaviour in IT sectors".
- To know the most predominant factor that influences the individual investor to invest in IT sector.

2.0 LITERATURE REVIEW**2.1 LITERATURE REVIEW**

In this study a comprehensive literature review about behavioural finance in general is beyond the scope of the paper. Instead, the results of some studies about individual investor behaviour will be highlighted in the base paper more attention had been given to institutional investors. It should be noted here in this study that a substantial amount of attention has been given to the individual investor behaviour.

i. **Kadiyala and Rau (2004)**³ investigated investor reaction to corporate event announcements. They concluded that investors appear to under react to prior information as well as to information conveyed by the event, leading to the different patterns: return continuations and return reveals, both documented in long-horizon return. They found no support for the overreaction hypothesis.

ii. **Merikas et.al.(2003)**⁴ adopted a modified questionnaire to analyze factors influencing Greek investor behaviour on the Athens Stock Exchange. The results indicate that individual's base their stock purchase decisions on economic criteria combined with diverse other variables. They do not rely on a single integrated approach, but rather on many categories of factors. The results also revealed that there is a certain degree of correlation between the factors that behavioural

finance theory and previous empirical evidence identify as the influencing factors for the average equity investor, and the individual behaviour of active investors in the Athens Stock Exchange (ASE) influencing by the overall trends prevailing at the time of the survey in the ASE.

iii. **Malmendier and Shanthikumar (2003)**⁵ tried to answer the question: Are small investor naïve? They found that large investors generate abnormal volumes of buyer-initiated trades after a positive recommendation only if the analyst is unaffiliated. Small traders exert abnormal buy pressure after all positive recommendations, including those of affiliated analysts. Hodge(2003) analyzed investors' perceptions of earnings quality, auditor independence, and the usefulness of audited financial information. He concluded that lower perceptions of earnings quality are associated with greater reliance on a firm's audited financial statements and fundamental analysis of those statements when making investment decisions.

iv. **Krishnan and Booker (2002)**⁶ analyzed the factors influencing the decisions of investor who use analysts' recommendations to arrive at a short-term decision to hold or to sell a stock. The results indicate that a strong form of the analyst summary recommendation report, i.e., one with additional information supporting the analysts' position further, reduces the disposition error for gains and also reduces the disposition error for losses

v. **Nagy and Obenberger (1994)**⁷ examined factors influencing investor behaviour. They developed a questionnaire includes (34) questions. Their findings suggested that classical wealth – maximization criteria are important to investors, even though investors employ diverse criteria when choosing stocks. Contemporary concerns such as local or international operations, environmental track record and the firm's ethical posture appear to be given only cursory consideration. The recommendations of brokerage house, individual stock brokers, family members and co-workers go largely unheeded. Many individual investors discount the benefits of valuation models when evaluating stocks.

vi. **Epstein (1994)**⁸ examined the demand for social information by individual investors. The results indicate the usefulness of annual reports to corporate shareholders. The results also indicate a strong demand for information about product safety and quality, and about the company's environmental activities. Furthermore, a majority of the shareholders surveyed also want the company to report on corporate ethics, employee relations and community involvement.

vii. **De Bondt et al.,(1985)**⁹ published a paper about behavioural finance in which they asked the following question: " Does the stock market overreact?", the article gave evidence to support the hypothesis that cognitive bias (investor overreaction to a long series of bad news could produce predictable mispricing of stocks traded on the NYSE.

The main findings of the above studies can be summarized as follows:

1. There is no support for the overreaction hypothesis.
2. Investor over-reaction to a long series of bad news could produce predictable mispricing of stocks
3. Classical wealth – maximization criteria are important to investors.
4. The recommendations of brokerage house, individual stock brokers, family members and co-workers go largely unheeded
5. A strong demand for information about product safety and quality, and about the company's environmental activities

3.0 RESEARCH METHODOLOGY

3.1 METHODOLOGY

Considering the dearth of studies in the a foresaid area in the Indian context, the study methodologically may be nested as an quantitative exploratory research wherein cross-sectional design with survey method using face to face personal interview with structured questionnaire was utilized to understand the proposed relationship.

Primary Data was collected through Survey method through questionnaire. The questionnaire consisted of 32 questions related to different factors that could affect individual investors decision in IT sector . Respondents were asked to indicate their degree of agreement with each of the items on five-point Likertscale . Respondents were asked to mark appropriate number on the scale from 1(strongly disagree) to 5 (strongly agree) which indicate to what extent their investment decisions are affected by factors.

The pilot study was conducted with sample of 60 investors and the actual sample size of 140 was statistically determined using the formulae. The Questionnaire was administered to 140 investors using convenient sampling method.

Factor Analysis was done to know the most influencing factors which affected investment decisions in IT. Kurtosis and skewness checks the reliability. Frequency distribution was conducted for every question to know which are predominant factors and least factors that influence individual investors in IT sector.

3.2 VARIABLES

The variables considered in the study are as follows:

1. Self-Image/Firm-Image Coincidence

- Religious reasons
- Feelings for a firm's products and services
- Reputation of the firm's shareholders
- "Get rich quick"
- Firm status in industry
- Perceived ethics of firm
- Gut feeling on the economy
- Reputation of the firm
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- Current economic indicators
- Recent price movement in a firm's stock

4. Advocate Recommendation

- Broker recommendation
- Family member opinions
- Friend or co-worker recommendations
- Opinions of the firm's majority stockholders

5. Personal Financial Needs

- Attractiveness of non-stock investment
- Diversification needs
- Ease of obtaining borrowed funds
- Minimizing risk
- Expected Losses in international financial markets
- Expected Losses in other local investment

4.0 ANALYSIS AND INTERPRETATION**4.1 ANALYSIS**

The data has been collected as per the requirement of the study. The data is analyzed only based on primary sources by giving questionnaire to individual IT investors. In order to analyze the factors that influence behaviour of IT investors while investing in shares and to analyse which are the predominant factors that influence investor's behaviour.

4.1.1 DESCRIPTIVE ANALYSIS

The data collected was subjected to preliminary descriptive analysis to adjourn the normality assumptions. The descriptive statistics are shown in table-1 through table-5, and the statistics of each measurement item reveals that none of the skewness statistic exceeds 3 points and kurtosis 10 points. Therefore by generally accepted criteria the data meets the assumptions of normality.

Descriptive Statistics for Firm Image			
Variables	Mean	Skewness	Kurtosis
Religious reasons	3.5643	-0.743	-0.34
Feelings for a firm's products and services	2.9286	0.261	-1.171
Reputation of the firm's shareholders	3.2143	-0.784	0.071
Get rich quick	3.1	-0.297	-0.712
Firm status in industry	2.8357	0.271	-0.967
Perceived ethics of firm	3.2071	-0.481	-0.78
Gut feeling on the economy	3.45	-0.778	-0.337
Reputation of the firm	3.1571	-0.456	-0.643
Increase of the firm's involvement in solving community problems	2.2857	0.642	-0.966
Descriptive statistics for Accounting Information			
Stock Marketability	3.4214	-0.556	-0.97
Expected Corporate Earnings	3.4714	-0.648	-0.376
Condition of financial statements	3.3071	-0.066	-0.44
Dividends paid	3.3857	-0.361	-0.754
Affordable share price	3.3714	-0.405	-0.945
Expected Dividends	3.8429	-1.307	2.119
Past Performance of the firm's stock	3.6929	-0.843	0.165
Descriptive statistics for Neutral Information			
government holdings	2.9643	0.025	-1.112
information obtained from internet	3.4857	-0.392	-0.707
fluctuation in the stock market	3.2714	-0.527	-0.263
coverage in press	3.5143	-0.345	-0.767
statements from government	3.4857	-0.6	-0.62
current economic indicators	3.4643	-0.87	0.093
Descriptive statistics for Personal Financial Needs			
attractiveness of non stock investment	3.15	-0.358	-0.8
diversification needs	3.4643	-0.629	-0.088
ease of obtaining borrowing funds	2.7786	0.049	-0.899
expected losses in other local investments	2.9786	0.043	-0.775
minimising risk	3.1214	-0.006	-1.084
expected losses in international financial markets	3.2214	0.097	-1.416
Descriptive statistics for Advocate Recommendation			
broker recommendation	2.75	-0.017	-1.097
family or friend recommendation	3.2357	-0.24	-0.811
opinion's of the firm's majority stockholders	3.3071	-0.306	-0.792

4.1.2 FACTOR ANALYSIS

The data collected were subjected to factor analytic procedure using principal component method of extraction and varimax rotation for uncovering the underlying dimensions. KMO statistic was obtained to measure sampling adequacy and Bartlett's test of sphericity for establishing the significance of factor analytic process.

The results of the factor analysis and KMO statistic of 0.535 is above the norm 0.50, Bartlett test of Sphericity is significant of .0000 at 55 degrees of freedom and explains 63.55 percentage of variance with 4 factor solution.

The measurement items that loaded together were subjected to interpretation based on the meaning of the statement of measurement, the four factors that seem to influence investor decision are

1. Classical wealth maximization.
2. Firm status.
3. Neutral information.
4. Commitment and recommendation.

This means that for investor, these four factors are the major reasons influence his investment decision.

5.0 CONCLUSION

This study identified the factors influencing individual investor's behaviour in IT sector. The study was conducted using a modified questionnaire. The questionnaire included thirty two items that belongs to five categories, namely self-image/ firm-image coincidence; accounting information; neutral information; advocate recommendation; and personal financial needs.

One factor was found the most influencing factor, where it was more than 50% of total respondents consider these factor as the most affecting factors on their behaviour based on frequency distribution i.e. **REPUTATION OF THE IT FIRM**. The most influencing factor was by order of importance: reputation of the IT firm, Reputation of IT firms shareholders, Perceived ethics of the firm, Get rich quick.

Two factors were found the least influencing factors, where less than 20% of total respondents consider these factors as the least affecting factors on their behaviour. The least influencing factor was by order of importance: expected losses in other local investments, minimizing risk, expected losses in international financial markets, family member opinions and gut feeling on the economy. As there did not appear to be a single set of variables investors used consistently to make stock purchase decisions, we employed factor analysis to determine whether there are underlying constructs that represent a synthesis of investor concerns like ,

1. Classical wealth maximisation
2. Firm status
3. Neutral information.

Clearly The manager of IT companies listed require to give more attention to most influence factors in order to satisfy the desires of their investors and also to attract more investors to deal with their stocks. A better understanding of behavioural processes and outcomes of individual investors is important for financial planners because an understanding of how investors generally respond to market movements should help investment advisors in devising appropriate asset allocation strategies for their clients. For investors as decision makers, the most influencing factor/ factors on their investment decision is crucial because this would affect their future financial plans. For companies, identifying the most influencing factors on their investors' behaviour would affect their future policies and strategies and also would help in generation of revenue of the company.

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ANNEXURE

QUESTIONNAIRE: STUDY ON FACTORS INFLUENCING INDIVIDUAL INVESTOR BEHAVIOR IN IT STOCKS DEMOGRAPHIC PROFILE

NAME:

Please place a TICK "v" box you feel appropriate for your feedback

1. Gender:

Male Female

2. Age

18-25 26-35 36-45 above 45

3. Marital status

Single Married

4. Highest education completed:

High School Diploma Degree Masters Professional Qualifications

5. Occupational Level:

Non-professional (eg Cashier, Clerk, Electrician, Casual worker)
 Professional (eg, Accountant, Doctor, Lawyer, Lecturer/professor)
 Others

6. Employment Sector:

Public Private

7. Share investment experience

0-2 years 3-5years 6-10years more than 10years

8. On average, how many IT companies' shares do you hold in your share account?

1-2 companies 3-5 companies
 6-10 companies More than 10 companies

PLEASE TICK [✓] ONE ANSWER TO EACH STATEMENT BASED ON THE FOLLOWING 5-POINT LIKERT SCALE

Sl. No	FIRM IMAGE	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
	FIRM IMAGE					
1	The Reputation of the IT firm influences me to invest in IT stocks.	1	2	3	4	5
2	'Get rich quick' motto influences my decision to invest in IT stocks.	1	2	3	4	5
3	Perceived Ethics of the IT firm influences me to invest in IT stocks.	1	2	3	4	5
4	The Loyalty towards an IT firm's products and services influence me to buy IT Stocks.	1	2	3	4	5
5	Increase of IT Firm's social responsibility [solving community problems] influence me to invest in IT stocks.	1	2	3	4	5
6	Reputation of the IT firms shareholders influence my decision to invest towards IT stocks.	1	2	3	4	5
7	Reliability on the economy of the nation will influence my decision to invest in IT stocks.	1	2	3	4	5
8	The creation of organised financial Markets influence my decision to invest in IT stocks.	1	2	3	4	5
9	Religious reasons influence me to invest in IT stocks.(religion of investor or firm)	1	2	3	4	5
10	Firm status in industry influences me to invest in IT stock.	1	2	3	4	5
	ACCOUNTING INFORMATION					
11	The Stock marketability (ABILITY TO SELL AND BUY) influences my decision to invest in IT stock.	1	2	3	4	5
12	Expected earnings/profit of the IT firm influences my decision to invest in IT stock.	1	2	3	4	5
13	Dividends paid (annually/half yearly/quarterly....) by IT firm 'influence me to invest in IT stock.	1	2	3	4	5
14	The share price Affordable by me influence investment in IT stock.	1	2	3	4	5
15	I consider Past performance of the IT firm's stock when investing in IT stocks.	1	2	3	4	5
16	I will see Condition of financial statement (sales revenue, acc. receivables, acc. payable, expenses etc.) before investing in IT stocks.	1	2	3	4	5
17	Expected dividends of IT firm motivate me to invest in IT stock.	1	2	3	4	5
	NEUTRAL INFORMATION					
18	Government holdings (as a security) in IT firms influence me to invest in IT stock.	1	2	3	4	5
19	Information obtained from the internet (IT firm's website) will influence me to invest in IT stock.	1	2	3	4	5
20	Fluctuation/developments in the stock index influence me to invest in IT stock.	1	2	3	4	5
21	Information covered in the press relate to the IT FIRM influence me to invest in IT stock.	1	2	3	4	5
22	I consider Current economic indicators opinion to invest in IT stocks.	1	2	3	4	5
23	Recent price movement (variation) in a IT firm's stock influence me to invest in IT stocks.	1	2	3	4	5
	ADVOCATE RECOMMENDATION					
24	I take Brokers recommendation to invest in IT stocks.	1	2	3	4	5
25	Family members, friends, colleagues opinion influence me to invest in IT stocks.	1	2	3	4	5
26	Opinions of the firm's majority and existing shareholders helps me to take decision on investment in IT stocks.	1	2	3	4	5
	PERSONAL FINANCIAL NEEDS					
27	Attractiveness of non stock investment (mutual funds, bonds, real estate) will these influence my investment decision in IT stocks.	1	2	3	4	5
28	Need for diversification influences me to invest in IT stocks.	1	2	3	4	5
29	Ease of obtaining borrowed funds influences me to invest in IT stocks.	1	2	3	4	5
30	Provision for Minimizing risk involved 'influences my decision in investing in IT stocks.	1	2	3	4	5
31	Expected losses in international financial market influence my decision in investing in IT Stocks.	1	2	3	4	5
32	Expected losses in other local investments influence my decision in investing in IT stocks.	1	2	3	4	5

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