
A PERFORMANCE EVALUATION STUDY OF SELECTED STOCKS IN 2024

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ABSTRACT

In this Research the performance analysis of selected Stocks are analysed and examined using Different methods and techniques and it is explained by Following data and calculations. This research is helpful for the investors who are investing their money in the stock market as its provide the through analysis of the various stocks whether to invest or not And also it suggests the various stocks whether it is undervalued or overvalued as it is one of the important indicator for the investors who tries to invest in various stocks. The analysis of this various stocks are done for the year 2024 Month wise by collecting the stock prices of 12 months and corelations and beta which is one of the important indication in assessing the performance of stock are Analysed using calculation's and figures. Key important metrics such as price changes during the period, trends in the market are used which will be helpful for the investors in choosing the right stock based on all the financial metrics and returns estimations.

This research offers useful insights to the investors who are beginning to invest in the stock market through these research the investors can easily pick the right stocks and maximize their returns and also they can build a strong portfolio. They can select the right stock in the different sector by seeing the stock price history and its movements year wise and also they can asses the return base on the historical trends and also they can examing whether stock prices are overpriced or underpriced And also beta calculation is done in this research to asses the risk of the stock that investor might face in investing in that particular stock with all these factors it suggests the investor in choosing the right stock and maximize their investment returns

Keywords: Portfolio, performance Evaluation, Investment, Stock market indices

1. INTRODUCTION

Indian stock exchange is one of the oldest and ancient which began its operations on 1956 under the approval of government of india later BSE was established as one of the indices in the stock market to regulate all the transactions and acted as monetary body and later NSE was established and became a principal regulatory authority related to all the stock market related activities and also companies were also should be registered in NSE or BSE for its stock to be listed in the Stock market All the security related transactions of all the investors are been regulated and monitored by NSE

These regulatory bodies have all the details of every investor and there transactions are done through NSE and BSE platform. They also monitor suspicious trading activities, illegal transfer of commodities or evading the security taxes, they also regulate monetary check of all the companies who are registered under Nse OR Bse Whether they are indulge in any illegal practise such as tax evasion or displaying false returns that attracts the investors etc As these indices are regulated by the government all the tax collection money goes to the government. investor are also subjected to pay various taxes who invest in stock market such as LTCG and STCG from the returns that they get from the stock market. Many of the investors who have invested in various sectors also gets a dividend based on their holdings and no of share they holds according to the company norms and regulations they might get a bonus share right issue etc it is mandatory for every company to declare dividends it indicated whether a company is making profit or not. Majority of the financial institution invest in stock market to maximize the profit as they have lakhs of deposited money they usually invest maximize returns and give the money return to the depositories with interest. Majority of foreign institution also invest in Indian stock market they deeply asses the company business and invest for long term.

The companies who register's under stock exchange the 1st step is to set a proper price for the stock according to the company requirements the price should be set on the basis of company business growth, profit ROI, NPM, ROA etc After setting up the price the stock get listed on stock exchange either on NSE or BSE The shares of the company will officially be listed and investors can buy or sell that stock. By listing the company on stock exchange the company enjoy good amount of profit as their shares are being traded by these money they will reduce the debt that they have taken and also they will invest on further new projects or they will buy equipments machinery etc They can also further increase the profit margin and acquire market share in the sector and they will also invest in startup to uplift the youth. The companies also expand their business to various sectors due to strong brand that they have created in stock market which will help them generate profit and also it boosts the employment opportunity

For this research 9 stocks across different sectors are analysed and these stocks are registered under NSE and BSE indexes These stock are one of the most traded stocks in the stock market All the parmaters of the stock are analysed and findings are also provided whether to invest in that stock or not also based on calculation and analysis dtermination of stock whether it is undervalued or overvalued are justified in this research which will help the investor in selecting the right stock according to their willingness and capblity to buy the stock for future or short term holdings

2. OBJECTIVES OF THE STUDY

- To examine the performances of various stock under different sector in 2024
- To analyse whether the stock are overpriced or underpriced
- To know the risk patterns of stock and determine to invest in that particular stock using beta values
- To know historical prices of various stocks in a year and also determine the nifty value of all the months
- To examine the stocks based on Niftyvalues and prices of various stock monthly wise and perform the Analysis

3. REVIEW OF LITERATURE

- “Ahmad”explains stock market is one of the most important Regulatory and principal body of every country that assess the profit or loss of evvery stock of any sectors who are registerd under stock exchange
- Ramesh(2004)Explains impact of how stock market has effected the individuals investments because of market crash recession and economic downturns.
- Patel(2008)explains the significance of Nifty how it has impacted the stocks and it has maximized the returns of shareholders who have invested in the top market cap stocks.
- Gupta(2019)Examines that investments in the stock markets have increased tremendously because of investors has build trusted in the returns that have been given to the investors compared to bank FDS
- Raj(2020)Explains that due to more investments that have been made by the investors in the stock market Government is also generating good amount of revenue by collecting security taxes such as LTCG AND STCG on returns also.
- Naveen(2000)The Government has regulated two principal bodies for monitoring the stock market they are NSE and BSE which will regulate all the transactions of every investors and companies and they also track illegal trading practises and they have the authority to
- Venkatesh(2021) Majority of all the sectors such as IT healthcare steel paints construction etc these stocks divided into various indices such as NiftyIT,NiftyHelathcare etc and Dividend will also be distributed to shareholder interms of no of shares holding according to the specific period

4. METHODOLOGY

In this research the main aim is to evaluate performances of various stocks in different sectors The data has been collected from secondary sources from Websites journals financial reports etc The analysis has done by interpreting the data of the various stocks till 1 year and analysis has been done using correlation that will determine the performance of the stock and also the relationship between variables.Beta calculation has been done to know the risk patterns of various stock that will help the investor knowing risk of investing in the stock this calculation is done by collecting the stock prices till 1 year and it is divided into 12 months to get the accurate results for the analysis of the research. In this research 9 stocks of various sectors are taken from it automobile Fmcg etc and data has been collected from BSE NSE websites prices of these stock are taken for 12 months and prices of these stock are taken for anlysis and calculations has been made using Excel to get accuate results for the research

After these calculation we can easily interpret whether the stock is overvalued or undervalued by these information it will be very helpful for the investors who are investing in stocks and also risk factors of these stock are also assed which will inform the investors that there is also subsequent risk in investing in stocks.the solution to minimize the risk is to diversify the investments across all the sectors so it helps to reduce the risk and maximize the investments in future.

INTERPRETATION:

Decision:(CORRELATION REGRESSION)

- 1 = perfect downhill negative linear relationship
- 0.70 = strong downhill negative linear relationship
- 0.5 = moderate downhill negative linear relationship
- 0.30 = weak downhill negative linear relationship
- 0 = no linear relationship
- 0.30 = weak uphill positive linear relationship
- 0.50 = moderate uphill positive linear relationship
- 0.70 = strong uphill positive linear relationship
- 1 = perfect uphill positive linear relationship

Decisions: (BETA)

- 1 = stocks responds to market risk
- >1 = more susceptible to market risk
- <1 = less responsive to market risk

Beta

As the beta value is negative in the data set the stock of axis bank is not heavily influenced by nifty and this stock is only concentrated on financial reports and profit results of the bank we can determine this stock is overvalued and this stock more responsive to market risk

Biocon

BIOCON							
Date	NIFTY	X	X2	BIOCON	Y	Y2	XY
01-01-2024	8561.3	0	0	268.4	0	0	0
01-02-2024	8879.6	3.7179	13.82278	276.5	3.017884	9.107622	11.22019
01-03-2024	9173.75	3.3126	10.97332	264.15	-4.46655	19.95003	-14.7959
01-04-2024	9304.05	1.4204	2.017536	298.55	13.0229	169.596	18.49773
01-05-2024	9621.25	3.4093	11.62333	309.25	3.583989	12.84498	12.21889
01-06-2024	9520.9	-1.043	1.087849	351.1	13.53274	183.1351	-14.1146
01-07-2024	10077.1	5.8419	34.1278	362.35	3.204215	10.267	18.71871
01-08-2024	9917.9	-1.5798	2.495768	359.1	-0.89692	0.804471	1.416959
01-09-2024	9788.6	-1.3037	1.699634	363.1	1.113896	1.240764	-1.45219
01-10-2024	10335.3	5.5851	31.19334	316.1	-12.9441	167.5495	-72.2941
01-11-2024	10226.55	-1.0522	1.107125	365.15	15.51724	240.7848	-16.3272
01-12-2024	10530.7	2.9741	8.845271	365.35	0.054772	0.003	0.162897
		21.2826	118.9937		34.74008	815.2833	-56.7486
CORELATION	0.805278	BETA	$\sum XY / \sum X^2$				
			-0.4769				

Interpretation

In this data set as the value of the corelation is 0.80 which indicated that it is closer to 1 and we can interpret has strong positive linera relationship between the variables which suggest that as the nifty index moves bioconstock also moves according to the index

Beta

As the beta value is -0.47 which indicates that this stock is not entirely dependent on nifty index this stock has the capacity to move without the support of index and we can determine that it also more responsive to risk

TCS

TCS							
Date	NIFTY	X	X2	TCS	Y	Y2	XY
01-01-2024	8561.3	0	0	3,815.95	0	0	0
01-02-2024	8879.6	3.7179	13.82278	4,095.10	0.000732	5.35143E-07	0.00272
01-03-2024	9173.75	3.3126	10.97332	3,876.30	-5.34297	28.54733769	-17.6991
01-04-2024	9304.05	1.4204	2.017536	3,820.65	-1.43565	2.061083445	-2.03919
01-05-2024	9621.25	3.4093	11.62333	3,670.95	3.918181	15.35214596	13.35826
01-06-2024	9520.9	-1.043	1.087849	3,904.15	6.352579	40.35526037	-6.62574
01-07-2024	10077.1	5.8419	34.1278	4,385.35	12.32535	151.9141566	72.00344
01-08-2024	9917.9	-1.5798	2.495768	4,553.75	3.842339	14.76356665	-6.07013
01-09-2024	9788.6	-1.3037	1.699634	4,268.50	-6.26407	39.23854886	8.166466
01-10-2024	10335.3	5.5851	31.19334	3,968.45	-7.0294	49.41248445	-39.2599
01-11-2024	10226.55	-1.0522	1.107125	4,270.85	7.620104	58.06597837	-8.01787
01-12-2024	10530.7	2.9741	8.845271	4,094.80	-4.12213	16.99195784	-12.2596
		21.2826	118.9937	4,291.10	4.793885	416.7025208	1.559285
CORELATION	0.471862	BETA	$\sum XY / \sum X^2$				
			0.013104				

Interpretation

In this data set as the value of corelation is 0.47 indicates moderate positive relationship between variables which explains when the market rises also tcs stock prices also increas moderately as the value is not close to 1 other factors such as economic downturn,false news may impact the stock moderately

Beta

As the value is 0.013 it indicates that this stock is one of the low risk stock compared to other because this stock has performed excellently during the years and also provided good dividend to the shareholders this stock is undervalued as it has the capacity to reach 5000 in the future years

Infosys

	M	N	O	P	Q	R	S	T
INFY								
Date	NIFTY	X	X2	INFY	Y	Y2		XY
01-01-2024	8561.3	0	0	1,651.59	0			0
01-02-2024	8879.6	3.7179	13.82278	1,664.52	0.78	0.612904147824935		2.910677
01-03-2024	9173.75	3.3126	10.97332	1,489.66	-10.51	110.357769095832000		-34.7993
01-04-2024	9304.05	1.4204	2.017536	1,412.59	-5.17	26.766797002153400		-7.34867
01-05-2024	9621.25	3.4093	11.62333	1,406.90	-0.40	0.162252829022275		-1.37329
01-06-2024	9520.9	-1.043	1.087849	1,566.75	11.36	129.091849189146000		-11.8504
01-07-2024	10077.1	5.8419	34.1278	1,868.25	19.24	370.318344442991000		112.4195
01-08-2024	9917.9	-1.5798	2.495768	1,943.70	4.04	16.309795150135800		-6.38008
01-09-2024	9788.6	-1.3037	1.699634	1,875.60	-3.50	12.275402876511700		4.567679
01-10-2024	10335.3	5.5851	31.19334	1,757.25	-6.31	39.815857773880900		-35.2419
01-11-2024	10226.55	-1.0522	1.107125	1,857.85	5.72	32.773955331408500		-6.02369
01-12-2024	10530.7	2.9741	8.845271	1,880.00	1.19	1.421432259405740		3.545836
		21.2826	118.9937		16.44882	739.906360098312000		20.42639
CORELATION	0.588478			BETA				
				0.959769				

Interpretation

In this data set the correl value is 0.58 which is less than 1 that indicates moderate positive relationship between two variables when the market rises the stock of infy also rises according to the metric as the value is not close to 1 other factors such as economic downturn,false news may impact the stock moderately

Beta

As the value0.95 which indicates this stock is one of the low risk risk stocks as this stock has performed well during the years it has also potential to reach the price of 2000 easily during the following years the company has posesed good profits and it has grown significantly year wise it has also declared good amount of dividend to their shareholders

Ashok Leyland

ASHOK leyland								
DATE	NIFTY	X	X2	ASHOK	Y	Y2		XY
01-01-2024	8561.3	0	0	175.9	0			0
01-02-2024	8879.6	3.7179	13.82278	169.9	-3.41103	11.63512		-12.6819
01-03-2024	9173.75	3.3126	10.97332	171.25	0.794585	0.631365		2.632142
01-04-2024	9304.05	1.4204	2.017536	192.65	12.49635	156.1588		17.74982
01-05-2024	9621.25	3.4093	11.62333	224	16.27303	264.8116		55.47965
01-06-2024	9520.9	-1.043	1.087849	241.89	7.986607	63.78589		-8.33003
01-07-2024	10077.1	5.8419	34.1278	257.09	6.283848	39.48675		36.70961
01-08-2024	9917.9	-1.5798	2.495768	256.45	-0.24894	0.061971		0.393276
01-09-2024	9788.6	-1.3037	1.699634	235.4	-8.20823	67.375		10.70107
01-10-2024	10335.3	5.5851	31.19334	208.18	-11.5633	133.7098		-64.5822
01-11-2024	10226.55	-1.0522	1.107125	232.08	11.48045	131.8007		-12.0797
01-12-2024	10530.7	2.9741	8.845271	220.5	-4.98966	24.89669		-14.8397
		21.2826	118.9937	2585.29	26.89372	894.3537		11.15203
CORELATION	0.685602			BETA	$\frac{\sum XY}{\sum X^2}$			
					0.093719			

Interpretation

In this data set the value 0.68 indicates moderate positive relationship between two variables this stock is moderately correlated with the nifty index when it rises the stock also moderately increases metric as the value is not close to 1 other factors such as economic downturn,false news may impact the stock moderately or sometimes severely

Beta

As the value is 0.03 it signifies that this stock is one of the low risk stock as this stock performed well during the years the price of the stock has also been increased monthly wise and this stock has the potential to reach 250 in coming years as it is one of the good automobile stock that is liked by many investors because of the returns it has posted

Apollo tyres

APOLLO tyres							
date	NIFTY	X	X2	APOLLO TYRES	Y	Y2	XY
01-01-2024	8561.3	0	0	540.5	0	0	0
01-02-2024	8879.6	3.7179	13.82278	518.5	-4.07031	16.56739	-15.133
01-03-2024	9173.75	3.3126	10.97332	466.45	-10.0386	100.7729	-33.2538
01-04-2024	9304.05	1.4204	2.017536	510.1	9.357916	87.5706	13.29198
01-05-2024	9621.25	3.4093	11.62333	463.5	-9.13546	83.4567	-31.1455
01-06-2024	9520.9	-1.043	1.087849	541.9	16.91478	286.1097	-17.6421
01-07-2024	10077.1	5.8419	34.1278	555.7	2.546595	6.485148	14.87696
01-08-2024	9917.9	-1.5798	2.495768	492.9	-11.3011	127.714	17.85342
01-09-2024	9788.6	-1.3037	1.699634	547.85	11.14831	124.2847	-14.534
01-10-2024	10335.3	5.5851	31.19334	504.95	7.830611	61.31846	43.73474
01-11-2024	10226.55	-1.0522	1.107125	509.65	0.930785	0.866361	-0.97937
01-12-2024	10530.7	2.9741	8.845271	529.4	3.875208	15.01724	11.52526
		21.2826	118.9937	6181.4	18.0588	910.1633	-11.4055
CORELATION	0.05549		BETA	$\frac{\sum XY}{\sum X^2}$			
				-0.095849375			

Interpretation

As the value is 0.055 it indicates very weak relationship between two variables and it is independtly uncorrelated with the market and stock price movements mainly depends on companys factors such as profitability margin ROI etc

Beta

As the value is -0.09 which indicates that this stock has more risk when investor invest in this stock as the value is negative it might show investor negative returns also as it is not dependent on stock market indices and this stock is also overvalued and the price can be slightly reduced so that many investor may buy this stock.this stock is overvalued

ITC

ITC							
DATE	NIFTY	X	X2	ITC	Y	Y2	XY
01-01-2024	8561.3	0	0	441.55	0	0	0
01-02-2024	8879.6	3.7179	13.82278	406.3	-7.98324	63.73213	-29.6809
01-03-2024	9173.75	3.3126	10.97332	428.35	5.427024	29.45259	17.97756
01-04-2024	9304.05	1.4204	2.017536	435.65	1.704214	2.904345	2.420665
01-05-2024	9621.25	3.4093	11.62333	426.45	-2.11179	4.459644	-7.19972
01-06-2024	9520.9	-1.043	1.087849	424.9	-0.36347	0.132107	0.379095
01-07-2024	10077.1	5.8419	34.1278	495.35	16.58037	274.9087	96.86087

01-08-2024	9917.9	-1.5798	2.495768	501.9	1.322297	1.74847	-2.08897
01-09-2024	9788.6	-1.3037	1.699634	518.15	3.237697	10.48268	-4.22099
01-10-2024	10335.3	5.5851	31.19334	488.8	-5.66438	32.08523	-31.6361
01-11-2024	10226.55	-1.0522	1.107125	476.75	-2.46522	6.077314	2.593905
01-12-2024	10530.7	2.9741	8.845271	483.65	1.447299	2.094676	4.304413
		21.2826	118.9937	5527.8	11.13081	428.0779	49.70981
CORELATION	0.709631		BETA	$\sum XY / \sum X^2$			
				0.4177515			

Interpretation

The value in the data set 0.70 indicates strong positive relationship between variables which implies whenever the nifty increases the stock price also increase significantly and the stock has performed very well during the years so this value is achieved and the price has been increased significantly monthly wise and it has posted good returns for the investors also who have invested in this stock

Beta The value is 0.41 which signifies that this stock has low risk factors when investors invested in this stock and it has also generated good returns as the price has been increased significantly As itc has doing its business across various sectors like fmcg paper industry hotels due to this it is one of the most traded stock in the stock market this stock has the potential to reach 550 in future years as it has diversified its business and achieved good profits. And this stock is undervalued

HUL

HUL	NIFTY	X	X2	HUL	Y	y2	xy
01-01-2024	8561.3	0	0	2,471.71	0	0	0
01-02-2024	8879.6	3.7179	13.82278	2,402.73	-2.79078	7.788456	-10.3758
01-03-2024	9173.75	3.3126	10.97332	2,255.37	-6.13302	37.61398	-20.3163
01-04-2024	9304.05	1.4204	2.017536	2,221.60	-1.49732	2.241953	-2.12679
01-05-2024	9621.25	3.4093	11.62333	2,319.81	4.420688	19.54248	15.07145
01-06-2024	9520.9	-1.043	1.087849	2,463.24	6.182834	38.22744	-6.4487
01-07-2024	10077.1	5.8419	34.1278	2,694.92	9.405498	88.4634	54.94598
01-08-2024	9917.9	-1.5798	2.495768	2,766.98	2.67392	7.149847	-4.22426
01-09-2024	9788.6	-1.3037	1.699634	2,946.57	6.49047	42.1262	-8.46163
01-10-2024	10335.3	5.5851	31.19334	2,518.22	-14.5372	211.3314	-81.1919
01-11-2024	10226.55	-1.0522	1.107125	2,496.15	-0.87641	0.768099	0.922161
01-12-2024	10530.7	2.9741	8.845271	2,326.85	-6.78244	46.00156	-20.1717
		21.2826	118.9937	29,884.15	-3.44381	501.2548	-82.3775
CORELATION	0.280743		BETA	$\sum XY / \sum X^2$			
				0.69			

Interpretation

As the value is 0.28 is very close to 1 it indicates weak relationship between the two variables in the data set whenever the nifty increases the price of the stock may increase or decrease this stock is not full dependent on nifty the stock performs well due to earnings of profits that has been made the period its generated in the financial reports

Beta

As the beta value indicated 0.60 which signifies this stock is less responsive to risk factors as it been established a good brand image in the stock market HUL is one of the stock where it has diversified its business across various segments such as personal care home care etc and its products are one of the most sold products and liked by many individual due to this sales has been increased tremendously and it has captured good amount of market share compared to the competitors. comparing the price of the stock these stock is slightly overvalued

5. FINDINGS

- In the banking sector stocks we found out that As the beta value is close to 1 which signifies that investors can easily buy the stock and hold for long term As his sector has the potential to reach upper circuit And banking is one of the principal financial institutions where it has a large no of customers and it also generating good amount of revenue investors can buy this stock and hold it in their portfolio. Banking stocks has less risk compared to other stocks so it is one of the ideal stock to buy for the investors
- In the pharma sector stocks we found out that as beta value is negative this stock is considered high risk stock compared to others so investors has properly analyse and buy this stock and this stock is not influenced by any market indices only this stock moves on quarterly sales annual reports generated by the company so this stock is not ideal for the investor to buy.
- it sector stocks is one of the most liked and preferred stock for the investors as in the analysis we found that this stocks has low risk when investor invests and it is also influenced by market indices As this sector generated good amount of revenue compared to other sectors and the price of this stocks is increasing rapidly during the years investors buy this stock and hold it for long term
- Automobile stocks analysed In this research are most influenced by heavy competition and it is also provide less margin. in the analysis the values are also not signifying good results this stock are considered high risk stock and it is not influenced by any market indices this stock can only perform well when it achieves good amount of profit when compared to its competitors
- FMCG stocks analysed in this research signify that this stock is underpriced in the market it has the capacity to reach further heights in the analysis the findings prove that this stocks are performing very well in the following years and the prices of this stocks are increasing day by day according to the analysis this stock is one of the low risk stocks compared to other sectors every investors must add this stock in their portfolio

6. CONCLUSION

The research is all about the performance evaluation of various sectors in different sectors through the calculations analysis done in this research it will help the investors in choosing right stock in their portfolio through this research the investors can make right decision to buy or sell the stocks or hold for long term. According to the analysis made In this research determination of low risk or high risk stocks are also identified so that it will help the investors in knowing the risk patterns before investing. In this research Nifty indices is also used in the calculation with these values we assessed how stock moves when these indices move positive or negative. Many of the stock analysed in this study is greatly inflated by the market indexes only few stock do not get influenced it only moves because of the company's earnings and profits earned better than the competitors. The investors has to consider all the factors before investing in the right stocks The main goal of this research is to inform stock market is not easy it also has various risk factors where chances of losing money is very high so the investors has to make good decision in buying the stocks he has to buy the stocks by seeing all the historical trends risk factors and whether the stock has the ability to reach upper target or not by keeping in this mind he has to select the right stocks

The selection of stocks is the most important thing for investors has to consider, and this can only be accomplished when he is aware of stock historical performance. In this research analyses of various stock under different stocks are analysed In this research I have taken 4 sectors and the analysis has been made. The correlation value and beta are calculated to analyse the performance of stocks. The research findings will assist investors in understanding how to manage their portfolios effectively. The study will help investors maintain their healthy portfolio by advising them on how to compare the performance of stocks with the market indexes.

7. REFERENCES

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