

Understanding the Stock Market Movements Through Technical Charts: An Empirical Study

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Article Info

Page Number: 203-209

Publication Issue:

Vol. 68 No. 1 (2019)

Abstract: The purpose of this is to examine the data on the effectiveness of technical analysis. According to research, technical trading tactics are lucrative in foreign currency and futures markets but not always in equity markets. Technical trading tactics routinely generate economic returns in a wide range of speculative markets. Notwithstanding the good evidence for the effectiveness of technical trading methods, most empirical studies include flaws in their testing techniques, such as data spying, ex post choice of stocks traded or search technology, and challenges in estimating risk and operating costs. In order to give clear data on the effectiveness of technical trading techniques, future research must overcome these testing shortcomings. The researcher had considered people from stock market to understand the stock marketing movements through technical charts and found that stock charts to find trends and patterns that may indicate how a stock will act going forward, Traders use chart technical advanced analytics to discover points of entry and exit for possible transactions and technical trading tactics routinely generate economic returns in a wide range of speculative markets.

Article History

Article Received: 09 September 2019

Revised: 16 October 2019

Accepted: 21 November 2019

Keywords: Technical Analysis, Stock Market, Technical Charts, Stock Market Movements

Introduction

“Technical analysis involves the examination of the share market related to variables such as the immediate and long-term trend.” These stock market indicators will help investors detect important market turning points. Long term trends and moving average crossover are important technological analysis methods for any indices or business because they better understand the price patterns of the shares, the indications they produce, and the main turning points in the market price. Each trader or investor must use technical analysis as an aid when deciding whether to buy a stock at a certain point in time, even if it is fundamentally solid. This is the use of instruments for technical analysis on selected indexes/stocks to determine whether to purchase or sell them. This, in turn, will assist investors in identifying the present trend and dangers associated with the stock on par with the market (Chavarnakul, & Enke, 2008).

Because of the uncertainty involved, forecasting both stock and price indexes is challenging. Prior to actually investing in a stock, investors conduct two sorts of study. The basic analysis comes first. In this case, investors consider the inherent worth of stocks, the performance of the sector and economy, the political climate, and other factors before deciding whether or not to invest. Technical analysis, on the other hand, is the appraisal of stocks via the examination of market activity information such as historical prices and volumes. Technical indicators do not seek to determine the inherent worth of a security, but rather utilise stock charts to find trends and patterns that may indicate how a stock will act going forward. Stock prices are

informationally efficient, which indicates that stock prices can be predicted using trade data (Park, & Irwin, 2007).

This is pretty natural because many unpredictable aspects, such as the country's political situation and the company's public image, will begin to show in stock prices. As a result, if the information acquired from share prices is properly pre-processed and suitable algorithms are used, the trend of a stock or share value index may be anticipated. Trading volume has long been acknowledged as significant information for understanding the fluctuation of stock prices. As a consequence, equivalued graphing was developed to examine how stocks appear to behave in terms of volume rather than time. The volume altered exponential smoothing (VAMA) and or the ease of movement are two technical indicators produced using equivoque charting (EMV) (Nelson, et. al, 2017,).

Literature Review

Trade volume is a standard market indicator one of the most important sources of data for determining price movement. In addition, academics and traders have long recognised that prior trading volume might give useful insight into potential stock prices. Many studies have been conducted to investigate the significance of trading activity in forecasting the stock market and investing. Technically analysis is a tool used by investors to estimate future stock price changes by evaluating previous trading activity in chart. Experts in technical analysis make heavy use of patterns charts and statistical statistics. Technical analysis is the assessment of previous market data utilising price and volume. Technical analysts use market sociology, behavioral science, and quantitation to estimate future market behaviour. Chart patterns and technological (statistical) indications, the two most popular instruments of technical analysis, are the two most prevalent kinds of technical analysis. Technical analysis attempts to foresee future market movements, giving investors with the information they require to profit (Patel, et. al, 2015).

Traders use chart technical advanced analytics to discover points of entry and exit for possible transactions. The price action of a stock or even the market may appear random at first, but with time, trends and pricing patterns may emerge. Technical analysts attempt to exploit these trends in order to profit greatly from the stock market. Investors mostly utilise technical analysis for short-term trading or long-term position purchase. Technical analysis is a mature science with underlying theories, concepts, and assumptions. Long ago, share market was a simple play of buying and selling; however, technical analysis is now used as an artistic and scientific method of capital investment future prices based on past price movements, and it provides investors and traders with various technical analysis indicators, including moving average indicators are known as technical analysis indicators. A moving average is an useful metric that is used to determine a security's trend, direction, fluctuations, and/or oscillations. Moving averages assist technical traders in the generation of trading signals (Chong, et. al, 2017)

Stock markets are one of the most popular places to invest. Technical analysis assisted investors in assessing shares according to technical oscillators in order to profit from productive investments. Because technical analysis aims to eliminate complexity by presuming and basing

everything, including all economic research, on price movements exhibited by the market, it is recognised globally. The fiercest supporters of financial analysis also acknowledged its relevance. The key to success in employing technical analysis as well as its tools is traders' expertise and judgement. Technical analysis pertains to knowing how to benefit in any market circumstance, rising or decreasing. Understanding of the equity markets is essential for success, and the attention should be on limiting trading risk, which technical analysis may assist investors in controlling. In a biased environment, technical analysis gives impartial answers. The stock market has just one side, and it is not the bull or bear side, but the correct side; technical analysis may be used to determine when to purchase and when to sell the scrip. In most circumstances, irrational financial behaviour such as greed and fear govern the market, undermining the effectiveness of technical indicators and its instruments in forecasting market movements, at least momentarily. All of the technical tools are only useful in an imperfect market; strangely, practically all economies are inefficient (Hall, & Gingerich, 2004).

The goal of technical analysis was to avoid the hazards of poor timing in financial decisions. According to the present portfolio literature, 'beta' value is the most accepted indicator of the scrip's risk. Gambling is the most severe kind of speculative activity. Investors may be concerned. Individuals or organisations of investors collaborate to make investing exciting and lucrative. Participants in the financial sector have variable levels of risk tolerance and risk carrying ability. Many investors are risk sensitive, while others may like risk. An investor's risk tolerance, on the opposite hand, is determined by his income. It is critical for the trader to demeanour both technical and fundamental evaluations while choosing the appropriate stock. Trend is regarded as a man's closest friend in the stock market. The technical analysis intended to identify trend rollbacks in the initial stages and increasing trends until the level of confidence showed that the trend had reversed (Yao, et. al, 1999).

Technical analysis is a way of evaluating equities, bonds, and other financial products via the use of graphs and historical market information. It entails researching historical economic trends, patterns, and market values in order to predict likely future price fluctuations. The usage of charts is one of the most extensively utilised methods in technical analysis. Charts show past price movements in stocks and other assets, helping investors and traders to spot trends, patterns, and critical levels of investment and resistance. Key resistance marks are places on a chart from which a security's price has historically rebounded off or failed to break through. Technical indicators are yet another instrument utilised in technical analysis. Technical indicators are statistical computations based on a security's price and/or data sets which are used to identify prospective market dynamics and signals. Moving averages, the relative strength index (RSI), and the MACD are popular technical indicators (moving average convergence divergence) (Lo, et. al, 2000).

Academics and practitioners have had many discussions on technical analysis. Some scholars contend that technical analysis is faulty and cannot reliably forecast market changes. Others contend that technical analysis is an effective technique for recognising short-term market patterns and making sound trading decisions. A survey of literature reveals conflicting findings regarding the effectiveness of technical analysis. Technical analysis, according to some study, can be a useful approach for forecasting short-term market fluctuations and providing abnormal

returns. For instance, it was revealed that analysis may be profitable in the currency market, despite opposite opinions that it might be effective in projecting stock prices (Boyacioglu, & Avci, 2010).

Other studies, on the other hand, have shown little or no proof of the efficiency of technical analysis. One study discovered that technical trade laws do not provide substantial returns after transaction expenses, while another discovered that analysis doesn't really add value to something like a simple actually purchase strategy. Despite the inconsistent outcomes, traders and investors continue to use technical analysis. The efficiency of technical analysis may vary depending on the market under consideration, the time period under consideration, and the precise candlestick patterns and trading employed. One of the first and best-known studies on the efficacy of technical analysis. They investigated the profitability of several technical trading strategies on the NYSE from 1962 to 1985. They discovered that technical trade laws do not create large gains after transaction expenses, implying that technical research may be ineffective for investors seeking anomalous returns (Pagolu, et. al, 2016).

However, several scholars have questioned the study's methodology and conclusions. For example, said that the results were based on a test statistic that did not account for market distortions effectively. The data was re-examined using more rigorous statistical approaches, and it was discovered that analysis may be a helpful tool for anticipating short-term market patterns. Other research on the efficiency of technical analysis have yielded conflicting findings. For example,) examined the performance of numerous technical trading strategies on the Sample 500 index from 1962 to 1989. They discovered that some technical trade laws might provide good returns after transaction fees, implying that trading strategy can be a useful technique for forecasting stock prices (Blume, et. al, 1994).

Similarly, technical analysis has been shown to be effective in the currency market. They examined a sample of everyday currency fluctuations for seven major currencies from 1974 to 1994 and concluded that technical trading methods might yield significant returns after transaction costs. On the other hand, several studies have shown little or no proof of technical analysis's usefulness. The study looked at the success of several asset pricing models on the Finnish securities exchange from 1988 until 1997. They discovered that technical analysis adds little value to a standard buy-and-hold strategy, implying that it may not be a viable option for investors seeking out-of-the-ordinary profits. Similarly, examined the success of several technical trading strategies on the foreign currency market from 1974 to 2008. They discovered that analysis did not beat a basic buy-and-hold approach after accounting for financial intermediation, demonstrating that that may not be a helpful instrument for anticipating market moves.

Overall, the evidence on the usefulness of trading strategies is equivocal. While some studies have shown it to be a beneficial tool for anticipating short-term market patterns and producing anomalous returns, others have identified little or no confirmation of its usefulness. The success of stock trading may be affected by a number of factors, and including market being investigated, the time frame being examined, and the precise technical indicators and financial rules being employed. As a result, investors and traders (Forbes, & Rigobon, 2002).

The research on the efficiency of technical indicators is inconclusive overall. While some investigations have shown it to be a good tool for anticipating short-term market patterns and producing anomalous returns, others have shown little to no evidence of its efficiency. The success of stock trading may be affected by a number of factors, including all the market under consideration, the time period under consideration, and the precise trend lines and trading rules employed. As a result, professional investors should exercise caution when employing scientific analysis and consider combining it with fundamental research and other tools to make informed trading decisions (Leigh, et. al, 2004).

Objective:

To understand the stock market movements through technical charts.

Methodology:

The researcher had considered people from stock market to understand the stock marketing movements through technical charts. The survey was conducted with the help of a structured questionnaire. The researcher had collected the primary data through convenient sampling method and Data was analysed and evaluated by mean.

Findings

Table 1 Stock Market movements through technical charts

S. No.	Statements	Mean Value
1.	Traders use chart technical advanced analytics to discover points of entry and exit for possible transactions	3.17
2.	Technical analysis is the assessment of previous market data utilising price and volume	3.14
3.	Utilise stock charts to find trends and patterns that may indicate how a stock will act going forward	3.19
4.	Technical charts help to understand the price patterns of the shares in better way	3.13
5.	Technical trading tactics routinely generate economic returns in a wide range of speculative markets	3.16
6.	Technical trading tactics are lucrative in foreign currency and futures markets	3.15

Table above is showing stock marketing movements through technical charts. The respondent says that they utilise stock charts to find trends and patterns that may indicate how a stock will act going forward with mean value 3.19, Traders use chart technical advanced analytics to

discover points of entry and exit for possible transactions with mean value 3.17. The respondent shares that technical trading tactics routinely generate economic returns in a wide range of speculative markets with mean value 3.16, Technical trading tactics are lucrative in foreign currency and futures markets with mean value 3.15, Technical analysis is the assessment of previous market data utilising price and volume with mean value 3.14 and technical charts help to understand the price patterns of the shares in better way with mean value 3.13.

Conclusion

To summarise, technical analysis is a way of evaluating stocks, commodities, as well as other financial instruments via the use of charts and historic market data. Technical analysis is widely used by market players to make informed judgments since it is founded on the assumption that prior trading volume data may predict future market movements. The research on technical analysis's usefulness is divided, with some studies suggesting that it can be a valuable tool for anticipating short-term market movements and producing anomalous returns, while others found little or no evidence of its efficiency (Wong, et. al, 2003).

The study was conducted to understand the stock marketing movements through technical charts and found that stock charts to find trends and patterns that may indicate how a stock will act going forward, Traders use chart technical advanced analytics to discover points of entry and exit for possible transactions and technical trading tactics routinely generate economic returns in a wide range of speculative markets.

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