

Learn to invest in the right stock at right price.

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# How to do Profitable **Investments** In **Stock Market** Using **Technical Analysis** By Md Jamil

A Comprehensive Guide to Profitable Investing



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#### What is Stock Market?

The stock market refers to the collection of exchanges and platforms where buying, selling, and issuing stocks (also known as shares or equities) of publicly traded companies takes place. It is a marketplace where investors can trade these securities.

When a company wants to raise capital, it can issue shares of its stock to the public through an initial public offering (IPO). Once the shares are available for trading, investors can buy and sell them on the stock market.

The stock market serves several purposes:

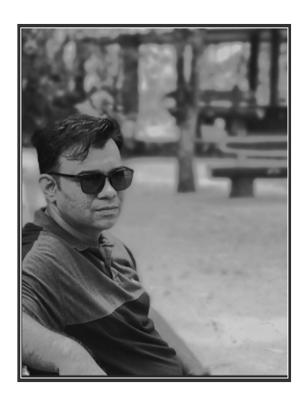
- 1. Capital raising: Companies can sell shares to raise funds for expansion, research and development, or other business activities.
- 2.Investment opportunities: The stock market provides individuals and institutional investors with opportunities to invest in companies and potentially benefit from their growth and success.
- 3. Liquidity: Investors can easily buy or sell shares on the stock market, providing liquidity to the ownership of stocks. This allows investors to convert their investments into cash relatively quickly.
- 4. Price discovery: The stock market reflects the collective sentiments and expectations of investors, which leads to the determination of stock prices. The continuous buying and selling of shares help in establishing fair market prices.
- 5. Risk management: The stock market provides a platform for investors to manage risk through diversification. By investing in a variety of stocks across different sectors and industries, investors can spread their risk and potentially minimize losses. The stock market can be influenced by various factors, including economic indicators, company performance, geopolitical events, investor sentiment, and government policies. It can be volatile, with stock prices fluctuating based on market conditions and investor perceptions.

# How you get profit from stocks: capital appreciation and dividend

By buying share, you are investing money in the company. As the company grows, the price of your share too will increase. You can get profit by selling the shares in the market.

There are various factors that affect the price of a share. Sometimes the price can rise and sometimes it can fall.

A dividend is a payment made by a corporation to its shareholders, usually as a distribution of profits. When a corporation earns a profit or surplus, the corporation is able to re-invest the profit in the business and pay a proportion of the profit as a dividend to shareholders.



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#### What is NSE, BSE and role of SEBI in it?

NSE (National Stock Exchange) and BSE (Bombay Stock Exchange) are the two major stock exchanges in India. They provide platforms for trading various financial instruments, including stocks, derivatives, and other securities.

1. NSE (National Stock Exchange): The National Stock Exchange was established in 1992 and is headquartered in Mumbai. It is the largest stock exchange in India in terms of trading volume and market capitalization. NSE operates on an electronic trading system, providing a transparent and efficient marketplace for investors to trade a wide range of financial products.

2.<u>BSE (Bombay Stock Exchange)</u>: The Bombay Stock Exchange is one of the oldest stock exchanges in Asia and was established in 1875. It is also located in Mumbai and is the oldest stock exchange in India. BSE offers a platform for trading various financial instruments, including equities, derivatives, mutual funds, and debt instruments.

SEBI (Securities and Exchange Board of India) is the regulatory authority for the securities market in India. It was established in 1988 as an autonomous body to protect the interests of investors, regulate the securities market, and promote the development and regulation of the securities market.

SEBI plays a crucial role in the functioning of NSE, BSE, and other stock exchanges in India. Its key responsibilities include: 1.Regulation and Supervision: SEBI formulates rules, regulations, and guidelines to ensure fair and transparent trading practices in the stock market. It oversees the operations of stock exchanges, clearing corporations, brokers, and other market participants to maintain market integrity.

2.Investor Protection: SEBI aims to safeguard the interests of investors by ensuring adequate disclosure of information, preventing fraudulent and unfair trade practices, and promoting investor education and awareness.

3. Market Development: SEBI is responsible for promoting the development of the securities market in India. It introduces reforms and initiatives to enhance market efficiency, encourage innovation, and attract both domestic and foreign investments.

4.Enforcement: SEBI has the authority to investigate and take disciplinary action against market participants involved in violations of securities laws. It has the power to impose penalties, suspend trading activities, or initiate legal proceedings against those found guilty of misconduct.

5. Policy Formulation: SEBI plays a crucial role in formulating policies related to the securities market, including market regulations, listing requirements, disclosure norms, and corporate governance standards. It continuously monitors market trends and dynamics to adapt regulations to changing market conditions.

SEBI's regulatory oversight and interventions aim to ensure the integrity and stability of the Indian securities market, promote investor confidence, and facilitate the growth and development of the market.



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### What is stock sub broker, demat account and what's need of demat account?

A stock sub-broker, also known as a sub-brokerage or authorized person, is an individual or entity authorized by a stockbroker to act as an intermediary between the stockbroker and clients/investors. They assist clients in buying and selling securities in the stock market, provide advisory services, and facilitate transactions on behalf of the stockbroker. The role of a stock sub-broker can vary based on the agreement with the stockbroker. They may engage in activities such as client acquisition, order placement, client servicing, and providing investment advice. They typically earn a commission or a fee for their services.

<u>A demat account</u>, short for "dematerialized account," is an electronic account used to hold and trade securities in a digital format. It is similar to a bank account, but instead of holding money, it holds shares, bonds, mutual fund units, and other financial instruments.

#### Here are some key points about demat accounts and their importance:

- 1. Elimination of Physical Certificates: Previously, shares and securities were issued in physical paper form. Holding physical certificates had drawbacks, such as the risk of loss, theft, forgery, and the inconvenience of handling and transferring physical documents. Demat accounts eliminate these issues by converting securities into electronic form.
- 2. Secure and Convenient: A demat account provides a secure and convenient way to hold and manage securities. It allows investors to buy, sell, and transfer securities electronically, eliminating the need for physical paperwork.
- 3.Integration with Trading Platforms: Demat accounts are linked to trading accounts, enabling seamless and quick transfer of securities during buying and selling transactions. It facilitates online trading, where investors can place orders and monitor their investments electronically.
- 4. Holding Various Types of Securities: Demat accounts are not limited to holding only stocks. They can also hold other securities like mutual fund units, bonds, government securities, and Exchange Traded Funds (ETFs). This consolidation allows investors to manage their investment portfolio in a single account.
- 5. Dividend and Interest Payments: Companies and mutual funds credit dividends and interest payments directly to the investor's demat account, eliminating the hassle of physical dividend warrants or interest cheques.
- 6.Reduction in Costs and Time: Demat accounts significantly reduce paperwork, processing time, and associated costs involved in handling physical securities. Investors can conveniently access and manage their investments electronically, saving time and effort.

It is important to note that in India, as per regulations, trading in stocks and securities can only be done through a demat account. It is a mandatory requirement for investors who want to participate in the stock market. Opening a demat account with a registered depository participant (DP) allows investors to hold and transact in electronic form, making their investment journey more efficient and secure.



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#### Difference between normal stock, futures and options instruments.

**Normal stocks**, also known as common stocks or equities, represent ownership in a company. When investors buy shares of a company's stock, they become partial owners and have the potential to benefit from the company's profits and value appreciation.

- •Stockholders may have voting rights in the company's decision-making processes, such as electing the board of directors or approving major corporate actions.
- •Stockholders may also receive dividends, which are a portion of the company's profits distributed to shareholders.
- •The value of a stock is determined by supply and demand in the market, influenced by various factors such as company performance, industry trends, economic conditions, and investor sentiment.
- •Investing in normal stocks can offer long-term capital appreciation and potential income through dividends. However, stock prices can fluctuate significantly, and there is no predetermined limit on potential gains or losses.

#### **Futures:**

- •Futures contracts are derivative financial instruments that represent an agreement to buy or sell an underlying asset at a predetermined price and date in the future.
- •Futures are standardized contracts traded on exchanges. They are regulated and have specific contract specifications, including the underlying asset, contract size, expiration date, and tick size.
- •Futures allow investors to speculate on the price movement of the underlying asset, hedge against price fluctuations, or take leveraged positions.
- •Investors can trade futures on various underlying assets, including commodities (such as oil, gold, or agricultural products), stock market indices, currencies, and interest rates.
- •Futures trading involves potential profits or losses based on the difference between the initial contract price and the price at which the contract is closed out.
- •Unlike stocks, futures trading involves margin requirements, where traders are required to deposit a portion of the contract value as collateral. Futures are generally more suited for short-term trading or hedging strategies, as they have specific expiration dates and settlement procedures.

#### **Options:**

- •Options are derivative contracts that provide the holder with the right, but not the obligation, to buy or sell an underlying asset at a predetermined price (strike price) within a specified period.
- •Options trading offers flexibility and strategies for investors to profit from price movements, hedge against risks, or generate income.
- •Call options give the holder the right to buy the underlying asset at the strike price, while put options give the holder the right to sell the asset at the strike price.
- •Investors can trade options on various underlying assets, including stocks, stock market indices, commodities, and currencies.
- •Options provide advantages such as limited risk (the premium paid for the option) and the ability to participate in price movements without owning the underlying asset.
- •However, options have an expiration date, after which they become worthless if not exercised. Additionally, options trading involves considerations such as strike price selection, time decay, and volatility.



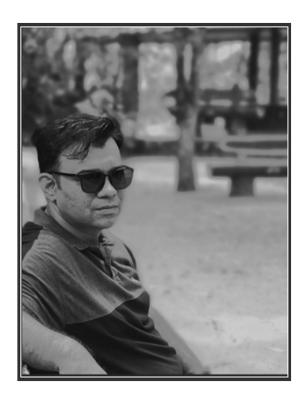
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### Different approaches to analyze stocks for investment purpose?

There are several methods and techniques investors use to analyze stocks before making investment decisions. Here are some commonly used approaches:

- 1. Fundamental Analysis: This approach involves evaluating a company's financial health, including its balance sheet, income statement, cash flow statement, and other financial metrics. Fundamental analysis looks at factors such as revenue, earnings, profit margins, debt levels, growth prospects, competitive position, and management quality to determine the intrinsic value of a stock.
- 2. <u>Technical Analysis</u>: Technical analysis involves studying historical price and volume patterns to identify trends and forecast future price movements. It relies on charts, indicators, and statistical tools to analyze stock price patterns, trading volumes, support and resistance levels, and other market data. Technical analysts believe that past price behavior can provide insights into future price movements.
- 3. <u>Valuation Analysis</u>: This method focuses on determining the fair value of a stock by comparing its current price to its underlying intrinsic value. Common valuation techniques include price-to-earnings (P/E) ratio, price-to-sales (P/S) ratio, price-to-book (P/B) ratio, discounted cash flow (DCF) analysis, and comparative analysis with industry peers. Valuation analysis helps investors assess whether a stock is undervalued, overvalued, or fairly priced.
- 4. <u>Qualitative Analysis</u>: Qualitative analysis involves evaluating non-financial aspects of a company, such as its industry dynamics, competitive advantage, brand strength, management team, corporate governance practices, regulatory environment, and overall business strategy. This analysis helps investors understand the qualitative factors that may impact a company's long-term prospects and sustainability.
- 5. <u>Risk Analysis</u>: Assessing the risk associated with a particular stock is crucial before making an investment. Factors to consider include market volatility, industry risks, company-specific risks, financial leverage, regulatory risks, and macroeconomic factors. Understanding and managing risk is essential for constructing a well-diversified investment portfolio.
- 6. <u>Analyst Reports and Ratings</u>: Many financial institutions and research firms provide analysis and ratings on stocks. Investors can review these reports to gain insights into a company's financial performance, industry trends, growth prospects, and potential risks. However, it's important to consider multiple sources and perform independent analysis rather than relying solely on analyst recommendations.

It's worth mentioning that combining multiple analysis approaches can provide a more comprehensive view of a stock. Additionally, staying informed about market news, economic indicators, and geopolitical events can also influence investment decisions.



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### What is fundamental and technical analysis?

<u>Fundamental analysis</u> involves looking at a company's financial and economic data, such as its revenue, earnings, assets, liabilities, and industry trends, to determine its value and potential for future growth. This type of analysis aims to assess a company's financial health and potential for growth by analyzing its financial statements, management quality, and the overall health of the industry in which it operates. The goal of fundamental analysis is to determine a fair value for a stock and to determine whether the stock is undervalued or overvalued relative to that value.

<u>Technical analysis</u> is a method of analyzing stocks, securities, or financial markets by examining historical price and volume data to identify patterns, trends, and signals that can help predict future price movements. It is based on the belief that market prices reflect all available information and that historical price patterns can provide insights into the future direction of prices.

### Why technical analysis?

There are two important questions which you have to answer when you want to buy shares?

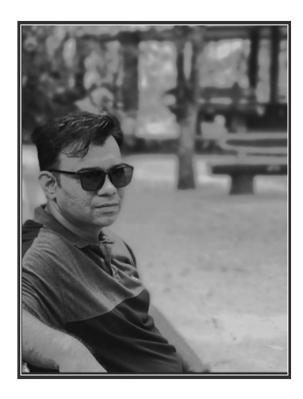
They are "What to buy" and "When to buy"?

You may be familiar with Fundamental Analysis, Fundamental Analysis answers the question "What to buy"? It is a study of company's financial statements, cash books, markets study to find out the future prospects of a company. It answers the question "Will this company be a good buy for long term"?, "Will it be more valuable than what it is now?" But!!, Even though you have picked up some excellent companies for your long term investments, that's not the end of the story. Now the biggest challenge and question you have is "When to buy it"?

You should not just go next day and buy the share, that's not the right approach.

There can be a price area where buying is best in terms of risk/reward.

Technical Analysis is the study of price chart, chart patterns. Technical Analysis gives us hint on what can happen in future, understand that it only gives you chances, not a guarantee.



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### Example:

Reliance is a very good long term Investment (do your own analysis to find out why, but it is :)).

On May 1 2019, Ajay and Robert want to invest Rs 1 lac in Reliance for long term.

Both of them understand that Reliance is truly long term buy. Ajay invests in Reliance on May 3, because share is going up and he feels it's a good time to enter in it. He buys the stock at Rs 1408.

After some days Stock starts falling and reaches around Rs 1,116. Robert buys the stock at that time. See the Chart.

Here you can see that Robert has got the stock at almost 20% lower price, which

means his profits will always be more than Ajay's by that much.

What did Robert do? Robert used simple Technical Analysis concepts and entered in the stock with better prices.

In the above case of Reliance, there is no significant price difference, but there can be cases, where there can be drastic differences, and it would be really worth to use

basic Technical Analysis.





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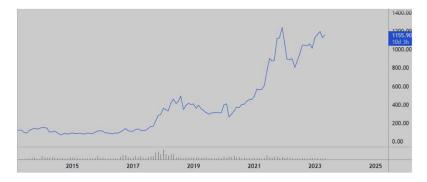
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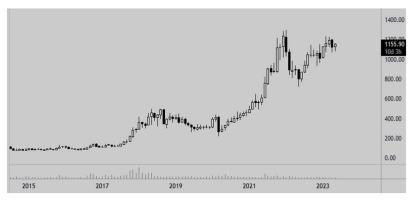
# Why charts???

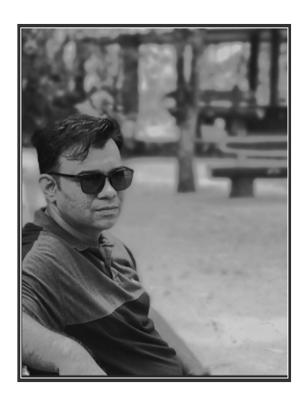
Price charts serve as the foundation for technical analysis. They provide a visual representation of historical price data and help traders identify patterns, trends, and potential trading opportunities. The following are the commonly used types of price charts:

Line charts connect the closing prices of each period with a line. They provide a simplified view of price movements over time. Line charts are useful for identifying long-term trends but may lack detailed information.

Candlestick charts originated in Japan and have become popular among traders worldwide. Each candlestick represents a specific time period (e.g., a day, an hour), and it displays the opening, closing, high, and low prices. The body of the candlestick is colored or filled, indicating whether the closing price was higher or lower than the opening price. Candlestick charts provide valuable information about market sentiment, price reversals, and potential trend continuation.







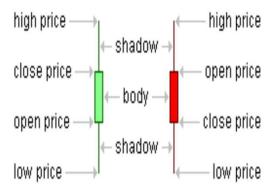
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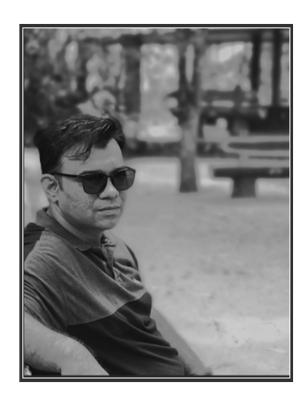
### How candles are constructed?

Candlestick charts are a popular type of chart used in technical analysis to visualize price movements of securities. Each individual candlestick represents a specific time period, such as a day, week, or month, depending on the chosen timeframe. Candlesticks provide information about the opening, closing, high, and low prices within that period.

Here's how candles are constructed in candlestick charts:

- 1. Open and Close: The body of a candlestick represents the price range between the opening and closing prices of the security during the chosen time period. If the closing price is higher than the opening price, the candlestick is typically filled or colored (commonly green or white), indicating a bullish or positive sentiment. Conversely, if the closing price is lower than the opening price, the candlestick is often hollow or colored differently (commonly red or black), representing a bearish or negative sentiment.
- 2.<u>High and Low</u>: The thin lines extending above and below the body of the candlestick are called the upper shadow (or upper wick) and lower shadow (or lower wick), respectively. The upper shadow represents the highest price reached during the period, while the lower shadow represents the lowest price. The length of these shadows provides information about the price volatility and the trading range for the period.
- 3. Wick and Body Thickness: The thickness or width of the body of the candlestick indicates the intensity of buying or selling pressure. A wider body suggests a significant price movement, while a narrow body indicates a relatively small price range. The length of the wicks relative to the body also provides insights into market sentiment. Longer shadows indicate greater price volatility, while shorter shadows suggest a more stable price range.





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# What is trend and its types?

In the context of technical analysis, a trend refers to the general direction in which the price of a security or financial instrument is moving over a given period of time. Recognizing and understanding trends is important for traders and investors as it can help inform their decision-making process.

Here are the three main types of trends:

- 1. <u>Uptrend:</u> An uptrend occurs when the price of a security is consistently moving in an upward direction over time. It is characterized by a series of higher highs (peaks) and higher lows (troughs) on a price chart. An uptrend indicates that buyers are in control, and there is an overall positive sentiment in the market.
- 2.<u>Downtrend</u>: A downtrend occurs when the price of a security is consistently moving in a downward direction over time. It is characterized by a series of lower lows and lower highs on a price chart. A downtrend indicates that sellers are in control, and there is an overall negative sentiment in the market.
- 3. <u>Sideways or Range-bound Trend</u>: A sideways or range-bound trend occurs when the price of a security moves within a relatively narrow price range with no clear upward or downward direction. It is characterized by a series of peaks and troughs that are relatively flat and don't show a distinct upward or downward slope. In this type of trend, supply and demand are relatively balanced, and there is indecision in the market.







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# What is support?

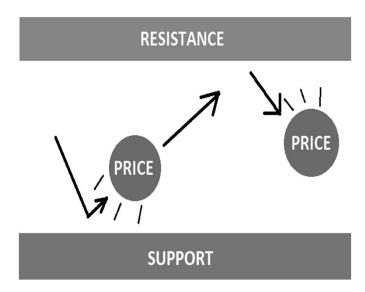
support refers to a price level at which a security or financial instrument tends to find buying interest, causing the price to stop declining or reverse its downward trend. It is considered as a level where demand for the security exceeds supply, creating a temporary or long-term floor for the price.

Here are some key points about support:

- 1. Price Floor: Support acts as a price floor, preventing the price of a security from falling further. It represents a level where buyers are willing to enter the market or increase their buying activity, creating demand and counteracting selling pressure.

  2. Reversal or Bounce: When the price reaches a support level, it may reverse its downward movement and start to rise. This reversal can be a temporary bounce or a more significant trend reversal, depending on the strength of the support level and other market factors.
- 3.Multiple Touches: Support levels are often identified based on historical price data and technical analysis. They are typically areas where the price has repeatedly touched or approached without breaking below. The more times the price has touched a particular level without breaking it, the stronger the support is perceived to be.
- 4.Psychological and Technical Factors: Support levels can be influenced by psychological factors, such as round numbers or significant historical price levels. Additionally, technical indicators and chart patterns, such as trendlines, moving averages, or Fibonacci retracement levels, can help identify potential support areas.
- 5. Support Turned Resistance: Once a support level is broken, it may reverse its role and become a resistance level. Resistance is a price level above the current market price where selling pressure tends to increase, making it harder for the price to move higher.

Break Down of support: Always remember that when prices don't hold support and break them and fall further, it tells that buyers are not strong enough and Sellers have taken over them and prices will make new lows, When support is broken, Sell further





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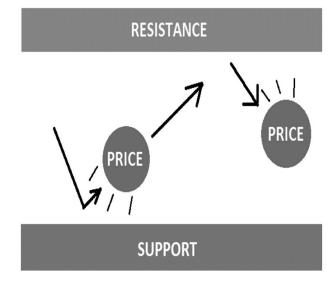
#### What is resistance?

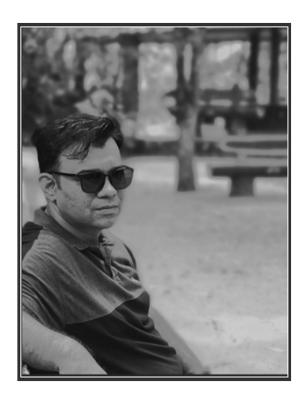
It is a price level at which a security or financial instrument tends to encounter selling pressure, causing the price to stop rising or reverse its upward trend. It is considered as a level where supply of the security exceeds demand, creating a temporary or long-term ceiling for the price.

Here are some key points about resistance:

- 1. Price Ceiling: Resistance acts as a price ceiling, preventing the price of a security from rising further. It represents a level where sellers are willing to enter the market or increase their selling activity, creating supply and counteracting buying pressure.
- 2.Reversal or Pullback: When the price reaches a resistance level, it may reverse its upward movement and start to decline or experience a pullback. This reversal can be a temporary correction or a more significant trend reversal, depending on the strength of the resistance level and other market factors.
- 3.Multiple Touches: Resistance levels are often identified based on historical price data and technical analysis. They are typically areas where the price has repeatedly touched or approached without breaking above. The more times the price has touched a particular level without breaking it, the stronger the resistance is perceived to be.
- 4.Psychological and Technical Factors: Resistance levels can be influenced by psychological factors, such as round numbers or significant historical price levels. Additionally, technical indicators and chart patterns, such as trendlines, moving averages, or Fibonacci retracement levels, can help identify potential resistance areas.
- 5.Resistance Turned Support: Once a resistance level is broken, it may reverse its role and become a support level. Support is a price level below the current market price where buying interest tends to increase, making it harder for the price to move lower.

  Break Out of resistance: When prices don't hold resistance points and break them on upside, prices then indicate that they are going to make new highs. Better to buy at that point.





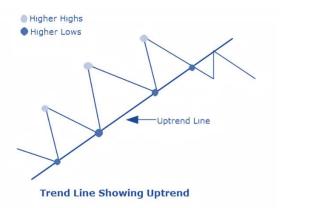
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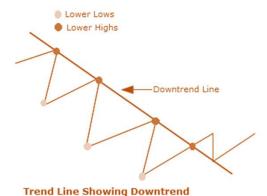
### What is trendline?

A trend line is a straight line drawn on a price chart that connects two or more significant price points, such as peaks or troughs. It is used in technical analysis to identify and visualize the direction and strength of a trend in a security or financial instrument.

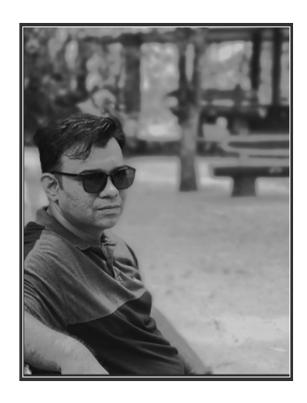
Here are some key points about trend lines:

- 1.Identification of Trend: Trend lines are primarily used to identify and confirm the direction of a trend. An upward sloping trend line connects higher lows, indicating an uptrend, while a downward sloping trend line connects lower highs, indicating a downtrend. A horizontal trend line may indicate a sideways or range-bound market.
- 2.Support and Resistance: Trend lines can act as support or resistance levels, depending on the direction of the trend. In an uptrend, the upward sloping trend line can provide support, while in a downtrend, the downward sloping trend line can act as resistance. Traders often look for price bounces or breakouts at trend lines as potential trading opportunities.
- 3. Visualizing Trend Strength: The steepness of a trend line can provide insights into the strength of the trend. A steeply sloping trend line indicates a strong and potentially accelerating trend, while a gently sloping trend line suggests a more gradual or weak trend.
- 4. Multiple Touches: The validity and significance of a trend line are strengthened when it is touched by multiple price points. The more times the price respects the trend line without breaking it, the more reliable the trend line is considered to be.
- 5.Timeframe Considerations: The effectiveness of a trend line may vary depending on the timeframe being analyzed. A trend line drawn on a longer-term chart (e.g., weekly or monthly) may have more significance and influence compared to a trend line drawn on a shorter-term chart (e.g., daily or hourly).





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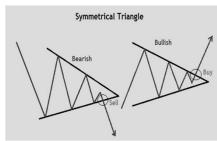
## What is chart pattern?

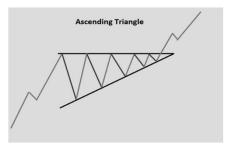
chart patterns are specific formations or patterns that appear on price charts. These patterns are believed to provide insights into the future price movement of a security or financial instrument. Traders and investors analyze these patterns to identify potential trading opportunities, determine entry and exit points, and assess market sentiment.

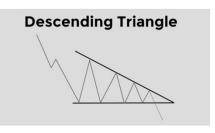
**Symmetrical Triangle**: A symmetrical triangle is a chart pattern that occurs when the price consolidates within converging trendlines, forming a triangle shape. It represents a period of indecision in the market, where the forces of supply and demand are roughly balanced. The upper trendline connects the lower highs, while the lower trendline connects the higher lows. As the pattern progresses, the price moves closer to the apex of the triangle, indicating a potential breakout. Traders typically look for a significant price move in either direction, often accompanied by a surge in trading volume, to confirm a breakout from the pattern.

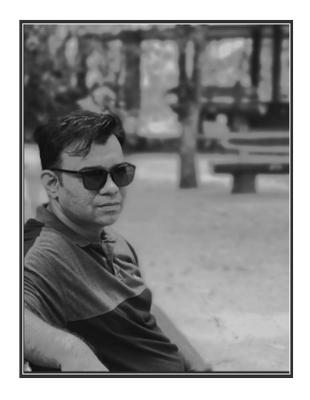
Ascending Triangle: An ascending triangle is a bullish chart pattern that forms when the price consolidates between a horizontal resistance level and a rising trendline. The horizontal resistance is formed by multiple price highs, while the rising trendline connects the higher lows. As the price approaches the apex of the triangle, it suggests a potential breakout to the upside. Traders often interpret an ascending triangle as a bullish signal, as it indicates that buying pressure is gradually overcoming selling pressure. A breakout above the resistance level is typically seen as a confirmation of the pattern and may lead to further upward price movement.

Descending Triangle: A descending triangle is a bearish chart pattern that forms when the price consolidates between a horizontal support level and a descending trendline. The horizontal support is formed by multiple price lows, while the descending trendline connects the lower highs. As the price approaches the apex of the triangle, it suggests a potential breakout to the downside. Traders often view a descending triangle as a bearish signal, as it indicates that selling pressure is gradually overcoming buying pressure. A breakdown below the support level is typically seen as a confirmation of the pattern and may result in further downward price movement.









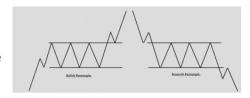
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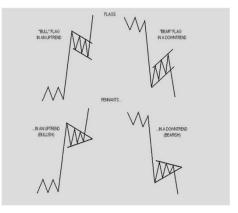
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Rectangle pattern: also known as a trading range or consolidation pattern, is a chart pattern that occurs when the price of a security moves within parallel horizontal trendlines, creating a rectangle shape. This pattern represents a period of consolidation or indecision in the market, where the forces of supply and demand are roughly balanced.

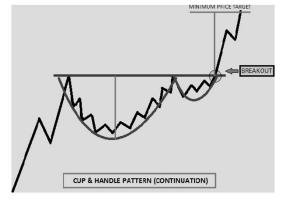
<u>Flag Pattern</u>: The flag pattern is a rectangular-shaped consolidation that forms after a sharp price move, referred to as the flagpole. The flag portion consists of parallel trendlines that move in the opposite direction of the flagpole. In an uptrend, the flag will slope downward, and in a downtrend, the flag will slope upward. The consolidation period typically exhibits lower trading volume. Traders look for a breakout in the direction of the prior trend as a potential trading opportunity.

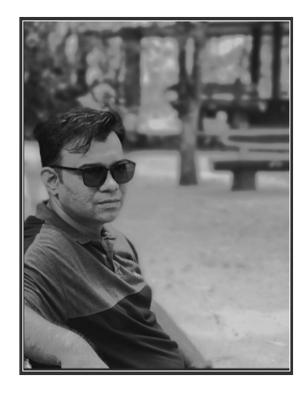
<u>Pennant Pattern</u>: The pennant pattern is a triangular-shaped consolidation that forms after a strong price move, similar to the flag pattern. The pennant is characterized by converging trendlines that form a symmetrical triangle. The consolidation is typically accompanied by a decrease in trading volume. Traders anticipate a breakout in the direction of the prior trend.





<u>Cup and Handle Pattern</u>: The Cup and Handle pattern is a bullish continuation pattern that resembles a cup with a handle. It is formed after a sustained upward price movement, indicating a temporary consolidation or pause before the uptrend resumes.



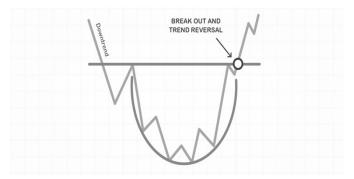


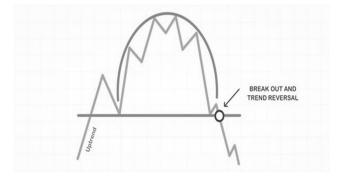
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<u>Rounding Bottom</u>: also known as a saucer bottom or bowl pattern, is a bullish reversal pattern. It appears as a gradual and smooth transition from a downtrend to an uptrend. The pattern resembles a rounded curve with a bottom that gradually slopes upward. It indicates a shift in market sentiment from bearish to bullish..

<u>Rounding Top pattern</u>, also called an inverted saucer or a bowl top pattern, is a bearish reversal pattern. It appears as a smooth transition from an uptrend to a downtrend. The pattern resembles a rounded curve with a top that gradually slopes downward. It indicates a shift in market sentiment from bullish to bearish.

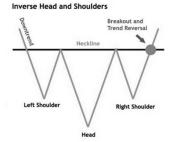


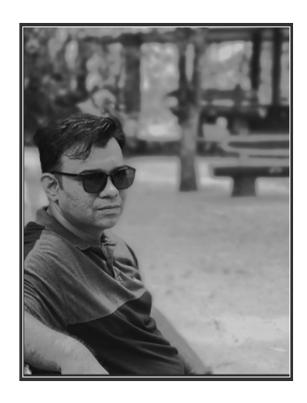


**Head and Shoulders pattern** is a widely recognized technical chart pattern that signals a potential trend reversal from bullish to bearish. It consists of three peaks, with the middle peak (the head) being higher than the other two (the shoulders). The pattern resembles a person's head and shoulders, hence its name.

**Inverted Head and Shoulders pattern** is the inverse of the Head and Shoulders pattern. It signals a potential trend reversal from bearish to bullish. The pattern consists of three troughs, with the middle trough (the head) being lower than the other two (the shoulders). The inverted pattern resembles an upside-down head and shoulders.





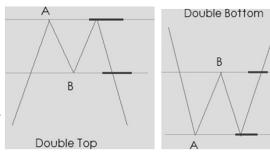


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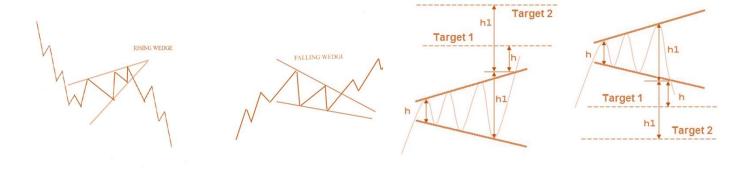
<u>Double Top pattern</u> is a bearish reversal pattern that occurs when the price of an asset reaches a resistance level twice and fails to break above it. It signifies a potential exhaustion of buying pressure and a shift in market sentiment from bullish to bearish. The pattern resembles the letter "M."

<u>Double Bottom pattern</u> is a bullish reversal pattern that occurs when the price of an asset reaches a support level twice and fails to break below it. It signifies a potential exhaustion of selling pressure and a shift in market sentiment from bearish to bullish. The pattern resembles the letter "W."



<u>Wedge Pattern:</u> A Wedge pattern is a technical chart pattern that is formed by two converging trendlines, creating a narrowing price range. It indicates a temporary pause or consolidation in the market before a potential breakout in the direction of the prevailing trend. The pattern resembles a wedge, with both trendlines slanting either upward (bullish wedge) or downward (bearish wedge).

<u>Broadening Wedge pattern</u>, also known as the Megaphone pattern or expanding triangle, is a chart pattern characterized by two diverging trendlines that widen over time. It represents increasing volatility and indecision in the market. The pattern resembles a widening megaphone shape.





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<u>Moving averages</u> are widely used technical indicators in trading that help smooth out price data and identify trends. They calculate the average price of an asset over a specified period and plot it on a chart. Traders use moving averages to understand the overall direction of the market, identify potential entry and exit points, and generate trading signals. Here's an explanation of moving averages and how to use them in trading:

### 1. Types of Moving Averages:

Simple Moving Average (SMA): It calculates the average price by summing up the closing prices over a specified period and dividing it by the number of periods.

Exponential Moving Average (EMA): It gives more weight to recent prices, making it more responsive to recent market activity compared to the SMA.

### 2. Determining the Period:

The choice of the moving average period depends on the trader's trading style and the time frame being analyzed. Common periods include 50, 100, and 200 days for longer-term trends, while shorter periods like 20 or 50 days are used for shorter-term trends.

### 3. Identifying Trends:

Moving averages help identify trends by plotting a smooth line that filters out short-term price fluctuations. In an uptrend, the price tends to stay above the moving average, while in a downtrend, it remains below the moving average.

### 4. Crossovers:

Moving average crossovers occur when two moving averages of different periods intersect. A bullish crossover happens when a shorter-term moving average (e.g., 50-day) crosses above a longer-term moving average (e.g., 200-day), indicating a potential bullish signal. A bearish crossover occurs when the shorter-term moving average crosses below the longer-term moving average, indicating a potential bearish signal.

# 5. Support and Resistance:

Moving averages can act as dynamic support or resistance levels. Traders often observe how the price interacts with the moving average. If the price bounces off the moving average and continues in the direction of the trend, it suggests the moving average is acting as support or resistance.

# 6. Signal Confirmation:

Moving averages can be used to confirm other technical analysis signals. For example, if a price breakout occurs above a resistance level and the moving average also starts to slope upward, it adds weight to the bullish signal.

# 7. Multiple Moving Averages:

Traders often use multiple moving averages to gain more insights. For instance, the intersection of two moving averages (e.g., 50-day and 200-day) is considered a significant signal for trend reversals.