



Multi-Timeframe Swing Trading Strategy for Indian Stocks (Nifty 500)

Introduction

Swing trading is about capturing short- to medium-term price moves (typically holding trades for **several days to a few weeks** ¹) within a larger trend. Here we develop a **multi-timeframe momentum strategy** focused on the Indian stock market, specifically the **Nifty 500** universe of stocks. The goal is to ride a stock "**till momentum is there**," meaning we stay in the trade as long as the trend remains strong and exit when momentum weakens. By aligning a higher timeframe trend with a lower timeframe entry signal, we can improve accuracy and reduce false moves ². In Indian markets – whether it's index trading (Nifty, Bank Nifty) or stocks like Reliance and Infosys – using multiple timeframes helps **catch high-probability setups** by ensuring the broader trend supports our trade ³. This strategy is **rule-based and backtestable**, using popular technical indicators (e.g. moving averages, RSI, MACD/ADX, volume) and can be tested on historical data (e.g. from Yahoo Finance) before live trading on platforms like Groww.

Strategy Overview

Our approach is a **trend-following swing trading strategy** that uses two primary timeframes: a **higher timeframe** (weekly chart) to define the overall trend context, and a **lower timeframe** (daily chart) to pinpoint entries and exits. By "zooming out" on the weekly chart to see the big picture trend, then "zooming in" on the daily for timing, we align short-term actions with the long-term trend – a proven method to boost trading accuracy ⁴. In essence, the weekly trend acts as a filter (we only trade in the direction of that trend), and the daily chart provides concrete entry signals (such as breakouts or indicator crossovers) in that direction. This combination helps **avoid trading against the larger trend** and **reduces false signals** – for example, we won't buy a stock if its weekly trend is bearish, even if there's a bullish blip on the daily ⁵. Instead, we focus on situations where **multiple timeframes confirm the same direction**, since that greatly increases the odds of success ⁵. The strategy targets **momentum swings**: entering as a new upswing begins and exiting when the swing loses momentum.

Key components of the strategy:

- **Universe:** Liquid stocks in the **Nifty 500** index. Focusing on Nifty 500 ensures we have a broad selection of large-, mid-, and small-cap stocks with sufficient liquidity (avoid illiquid stocks). We can also apply the strategy to indices like Nifty 50 or sector indices, but the examples here will assume individual stocks from Nifty 500.
- **Holding Period:** Not fixed in days – we hold the position **as long as the trend and momentum remain intact**. This could be anywhere from a couple of days to a few weeks or more, depending on how long the stock continues to move in our favor. We do **not** force-sell after X days; instead, the exit is driven by the stock's action (momentum indicators or stop-loss rules), as detailed later. This allows winners to run if a strong trend persists, while cutting losers or stagnant trades quickly.

- **Multi-Timeframe Alignment:** Use at least **two timeframes**:
- **Higher Timeframe (Context)** – *Weekly chart*: This gives the primary trend direction (uptrend, downtrend or range). We prefer trading in the direction of the weekly trend. For instance, if the weekly chart shows an uptrend (higher highs, stock above key moving averages, etc.), we will look only for long (buy) swing trades. This ensures we are swimming with the current, not against it ⁴ ⁶. Weekly charts filter out a lot of daily “noise” and provide more reliable trend signals.
- **Lower Timeframe (Execution)** – *Daily chart*: This is where we identify specific entry and exit points for swing trades. The daily timeframe is ideal for swing trading decisions ⁷ – it’s granular enough to offer timely entries and exits, but still captures multi-day moves. We will apply technical indicators and patterns on the daily chart to trigger trades, *but only in the direction of the weekly trend*. (Optionally, one could even use an intraday chart like 1-hour or 4-hour to fine-tune entries after the daily signal appears, but that’s an advanced refinement. The core strategy works with weekly + daily.)
- **Technical Indicators & Tools:** We incorporate a combination of **trend indicators**, **momentum oscillators**, and **volume/price-action cues** – essentially using “the best of” technical analysis for confirmation across timeframes. Key tools include:
 - **Moving Averages (MAs)** – to identify trend direction and act as dynamic support/resistance ⁸. For example, a stock trading *above its 200-day Moving Average* is generally in a long-term uptrend. We might use a **50-day MA** as well to gauge intermediate trend. Many traders look for a **golden cross** (50-day crossing above 200-day) as a bullish long-term signal ⁸. In our strategy, MAs will help filter trades (only take longs if price is above certain MAs) and guide exits (e.g. a break below an MA could signal trend weakness).
 - **Relative Strength Index (RSI)** – a momentum oscillator that measures the strength of price movements. We use RSI (14-period) on the daily chart to ensure momentum is on our side at entry and to signal when momentum might be waning. For instance, an **RSI above 60** indicates strong bullish momentum, whereas RSI dropping below 50 would warn that bullish momentum is fading ⁹ ¹⁰. Swing traders often “**buy when momentum is strong and sell when it weakens**,” using RSI to time this ¹¹. In our rules, RSI will be a crucial factor for entries/exits.
 - **MACD (Moving Average Convergence Divergence) or ADX (Average Directional Index)** – indicators of trend momentum and strength. The **MACD** measures momentum via two moving averages converging or diverging; a bullish MACD crossover (MACD line crossing above signal line) on the daily can act as a buy trigger or confirmation ¹² ¹³. The **ADX** explicitly gauges trend strength (values above 20-25 mean a trending market, values below 20 indicate a weak or sideways trend) ⁹. We can use ADX to filter out trades in choppy markets – for example, require **ADX > 20** on the daily to ensure a clear trend is present ⁹. If ADX is rising, it means the trend (up or down) is strengthening ¹⁴.
 - **Volume** – to confirm the validity of price moves. Volume spikes on breakout days or during big moves indicate genuine buying interest. We’ll prefer entry signals that are accompanied by **higher-than-average volume**, and be cautious if volume is very low (which could signal a false move). For example, a breakout above resistance is more convincing if it happens on volume higher than the 10-day average volume. (For backtesting, one could set a rule like “today’s volume > 1.5 * average volume” to quantify this.)
 - **Chart Patterns / Price Action** – to refine entries. While our strategy is largely indicator-driven, it’s useful to incorporate price action patterns such as **breakouts** from consolidations, **pullbacks** to support, or candlestick signals (like **bullish engulfing** patterns or **flags**). These patterns often serve as triggers for swing entries. For instance, a **breakout** strategy would look for the price to

break above a key resistance or recent trading range, which often launches a new swing up ¹⁵. A **pullback** approach might wait for a dip to an uptrend support (like a moving average or a Fibonacci retracement level) and then enter when the price resumes rising ¹⁶. In practice, we'll incorporate these by requiring either a breakout above a recent high or a bounce off a known support as part of our entry criteria.

By combining these tools across two timeframes, we get a comprehensive view: the weekly chart tells us "**should we even consider a buy?**" (only if in an uptrend), and the daily chart tells us "**when exactly to buy and when to sell.**" Next, we detail the explicit rules for entries, exits, and risk management.

Timeframe Setup and Trend Filter

Before diving into entry rules, we set up our **multi-timeframe framework**:

- **Weekly Trend Filter:** Start by analyzing the **weekly chart** of the stock:
 - Determine the **primary trend** – are we in an uptrend, downtrend, or sideways range? Techniques to do this include checking if the price is making higher highs and higher lows (uptrend) or lower highs/lows (downtrend), and using a long-term moving average as a trend filter. For example, **if the stock's weekly price is above the 30-week moving average (approx. 150-day MA) and that MA is sloping upward, we consider it an uptrend.** Similarly, weekly RSI > 50 can serve as confirmation of a bullish trend on that timeframe ¹⁷. Many traders use the 40-week MA (nearly equivalent to 200-day MA) to gauge the long-term trend – price above that is bullish bias.
 - Only **take long trades in stocks that are in weekly uptrends**, and ignore those in clear downtrends. (For a bearish strategy, one would do the opposite, but here we focus on long swings in rising stocks). This ensures alignment with the larger force – "*higher timeframe trumps lower timeframe, always*" ¹⁸. If the weekly trend is down or ambiguous, we stay out; this avoids low-probability bets against the grain ¹⁹.
 - You can use a tool like the **Supertrend** indicator on weekly for an easy trend read. For instance, Nifty in mid-2021 had a weekly uptrend which was reflected by Supertrend being in "buy" mode and weekly RSI staying above 50 ¹⁷. Alternatively, a weekly MACD rising through zero or a positive MA crossover on weekly can signal bullish trend ²⁰ ²¹. All these are valid ways to filter for strong-trending stocks.
- **Daily Chart for Trading:** Once a stock passes the weekly uptrend filter, zoom into the **daily chart** for actionable signals:
 - Ensure the daily chart generally reflects the weekly trend (it should if weekly is up, but daily might have recent pullbacks). On daily, also look for the stock being above key moving averages like the 50-day and 200-day. In a robust uptrend, you'll often see a "stack" of MAs (short-term above medium-term above long-term). For example, **price above the 200-day MA** is a minimum condition in our strategy (the Medium strategy example similarly required price > 200 MA for uptrend maintenance ⁹). We might also require **50-day MA above 200-day MA** (golden cross) or simply price above both 50 and 200-day.
 - Additionally, check **daily momentum conditions**: Is daily **RSI above a bullish threshold** (e.g. > 55 or 60)? Is the **daily ADX** indicating a trend (ADX say > 20)? These ensure the stock's current daily momentum aligns with the weekly trend. For instance, a strong stock will often keep RSI mostly above 50 during its advance (dips might bring RSI to 50-45, but rarely below) ¹⁷. We prefer RSI in bullish territory as a green light to enter. In our rules below, we'll set specific thresholds (RSI, ADX values) as prerequisites.

- If weekly is up but daily has been in a short-term correction, that's fine – in fact, that's often the ideal scenario: a **pullback in an overall uptrend**. In such cases, the daily might show RSI that dipped toward 40-50 area during the pullback ²². We will then wait for daily signals that the **pullback is ending** (e.g. RSI turning back up, or a bullish candle pattern). The key is: the **long-term uptrend (weekly) gives us conviction to buy the dip** rather than panic. As HDFC's analysis notes, if the long-term signal is bullish but short-term shows a dip, it often becomes a "buy-on-dips" opportunity for swing traders ²³.

By confirming the **long-term (weekly) trend is up** and the **daily is showing positive momentum or a bottoming of a pullback**, we set the stage to initiate a swing trade. This dual timeframe check drastically filters out bad trades. You won't, for example, buy a weak stock in a downtrend just because of a one-day bounce – a mistake that single-timeframe traders often make ⁶. Instead, you'll consistently trade *in the direction of the dominant trend*, which is a cornerstone of profitable swing trading ²⁴ ²⁵.

Example: Aligning Multiple Timeframes. The chart above (Nifty Daily) illustrates a **weekly uptrend confirmed on the daily** – note how the Supertrend indicator (green) stayed in buy mode and RSI (lower panel) remained **above 50** for most of the up-move ¹⁷. Short-term dips occurred (brief RSI declines and Supertrend flips on smaller timeframes), but the larger trend was bullish. A multi-timeframe trader uses such a daily chart (in context of a weekly uptrend) to identify swing entry points on pullbacks rather than getting spooked by minor countertrends.

Entry Strategy and Rules

Once a stock passes our trend filters, we look for a **precise entry trigger** on the daily chart. The entry should signal that **momentum is resuming in the direction of the trend** (after a pause or pullback). We will detail a primary entry technique (a breakout-style entry), along with an alternative pullback entry method. All entry signals assume the **higher timeframe context is bullish** as established above.

Entry Criteria (Daily Chart Trigger – Long Trades)

All of the following conditions should be satisfied before entering a long (buy) position in a stock:

- Weekly Trend Up:** The stock is in a clear uptrend on the weekly timeframe. For example, the last few weekly candles show higher highs and the price is above its 20-week or 30-week moving average (indicating positive long-term trend) ²⁶. We avoid new longs if the weekly trend is down or unclear.
- Price Above Key Averages (Trend Filter):** On the daily chart, the **price is above its 200-day moving average** (200 DMA). This is a simple proxy for long-term uptrend – being above 200 DMA means the stock has positive bias over ~1 year. Ideally, the price should also be above the 50-day MA, or the 50-day MA itself is above the 200-day (bullish alignment) ⁸. These ensure we're not buying a structurally weak stock. *Example:* A stock trading above its 200 DMA and 50 DMA is considered structurally strong ⁹.
- Momentum Confirmation:** The daily **RSI (14) is above 55-60** at the time of entry signal. This threshold indicates bullish momentum – it's higher than the neutral 50 level, showing the stock has strength. (We use 55 or 60 as a filter to be a bit strict; you can choose a value based on testing. Above 60 is quite strong momentum; above 50 is neutral+.) Requiring RSI > ~60 at entry means we aren't buying a stock that's still weak or losing momentum. This aligns with the principle that swing traders "**buy when momentum is strong**" ¹¹. Additionally, check that

daily RSI has not hit extreme overbought (>80) right before entry; extremely high RSI might mean a short-term blow-off – though in strong trends RSI can stay overbought for a while, a value in 60–70 range is ideal at entry (showing strength but with room to run).

4. **Trend Strength / Volatility Filter:** The **ADX (14) on daily is above 20 (or 25)**, OR the stock has some other indication of trend strength (e.g. expanding Bollinger Bands). ADX > 20 means the stock is trending rather than flat ⁹. This helps avoid stagnant range-bound stocks. Likewise, one might ensure the **ATR (Average True Range)** is not too low (Medium's example required ATR > 2 for sufficient volatility ⁹) – basically, we want stocks that are actually moving enough to swing trade, not totally dormant ones.
5. **Volume Filter:** Recent trading **volume is robust**. Preferably, the breakout or signal day should have volume higher than the 10-day average volume (indicating institutional participation). At minimum, ensure the stock's average daily volume exceeds a threshold (e.g. >1 million shares traded) ⁹ so that you can enter/exit without liquidity issues. Low volume breakouts are suspect – they can fail easily. High volume confirming a price move gives confidence in the breakout's validity.
6. **Entry Trigger:** With the above conditions met, we now need a specific entry trigger on the daily chart to actually place the trade. There are a couple of patterns to choose from:
 7. **(A) Breakout Entry:** The stock **breaks out above a resistance level or recent swing high**. This could be a **20-day or 1-month high** for a simple quantitative rule, or the high of the last consolidation range. A common approach is to buy when price **closes above the high of the previous X days** (X can be 10, 20, etc., tuned to how tight or loose you want the signal). For example, if a stock has been consolidating or pulling back and then **today it closes at a new 20-day high on strong volume**, that's a breakout entry. A classic swing trading tactic is entering on breakouts from patterns like **flags, triangles, or ranges** – these often precede quick moves ¹⁵. **Confirmation:** We'd like to see momentum confirming the breakout: e.g., **MACD histogram turns positive or MACD line crosses up** around this time, and perhaps a bullish candlestick formation (like a big green candle closing at its high). If the breakout is genuine, RSI will likely jump higher (often into the 60s or 70s) and ADX might start rising after the breakout day.
 8. **(B) Pullback Reversal Entry:** The stock is in an uptrend but had a minor **pullback**, and now it's **resuming upward** from support. In this scenario, you **buy on a bullish reversal off support** rather than a new high. The trigger could be a specific candlestick pattern or a moving average crossover:
 - One mechanical rule: Buy when the **10-day EMA crosses above the 20-day EMA** (signaling the short-term momentum turning up) *after* a recent dip. The EMAs act as a proxy for short-term trend – when the faster average crosses above the slower, the pullback likely ended and the swing up is restarting ²⁷. Ensure this crossover happens *above* the 50-day/200-day (i.e., within an overall uptrend).
 - Alternatively, look for a **bullish candlestick pattern** at a known support: e.g., the stock pulls back to its 50-day MA or a Fibonacci 38% retracement of the last rally, and then prints a **bullish engulfing** candle or a **hammer**. The day it closes with that bullish reversal pattern can be your entry (or the next day's open). In the weekly/daily context, this often means the weekly trend is up, daily had a controlled correction, and now a strong buy-day appears – a great swing entry signal ²⁶.
 - You may also use an indicator signal: e.g., **daily RSI that had dipped into the 40s now hooks back up above 50**, indicating the momentum down has passed and momentum up is returning ¹⁰. This is a straightforward momentum re-entry sign.

Both (A) and (B) essentially aim to catch the next leg of the uptrend. Strategy (A) is **momentum breakout** – you buy strength as the stock pushes to new highs (useful for very strong stocks that barely pull back). Strategy (B) is **buying the dip** – you get a slightly lower entry after a pullback, which can be advantageous in terms of risk/reward if you identify the turn correctly. You can choose one approach or even blend them (for example, take a half position on a dip reversal, add another half on the breakout of the recent high). For simplicity, if we were coding this strategy, we might stick to a clear quantitative rule like the **20-day breakout** as the entry trigger, with the other conditions as filters.

Example: Suppose **Stock ABC** is in a weekly uptrend (say the weekly 20-MA is rising and price is above it). On the daily, ABC has been above its 200-day MA for months and recently above the 50-day, but over the past two weeks it pulled back from ₹500 to around ₹470 (a normal retracement in an uptrend). During this dip, daily RSI went from 70 down to around 45. Now, ABC shows signs of a turnaround: today it formed a large bullish candle off the ₹465-470 support zone (which coincides with the rising 50-day MA). Volume was 1.8x the average. RSI has ticked back up to 55 from its lows, and MACD just had a bullish crossover. This triggers an entry: you could **buy at today's close (~₹480)** or next day's open, as the **downward momentum has likely ended and an upswing is starting**. The trade is in the direction of the weekly trend (up) and daily momentum is re-aligning upward. You'd set a stop loss below ₹465 (the recent swing low support). From here, you'll hold the stock until the momentum fades again (exit rules) – that could mean ABC rallies back above ₹500 and beyond in the coming days. If instead ABC had broken above ₹500 resistance on high volume (without much of a dip), that would be the breakout style entry – either way, the criteria ensure the odds are in your favor.

Illustration: Multi-timeframe Entry Example (Infosys). The image above shows a real-life MTFA setup for a swing trade on Infosys ²⁶. **Weekly chart (left):** in a clear uptrend, price above the 20-week moving average. **Daily chart (center):** the stock formed a *bullish engulfing* pattern near a support level, signaling the end of a pullback. **Hourly chart (right):** a breakout from a range with a MACD bullish crossover gave a precise entry trigger. All three timeframes aligned bullish. The strategy was to **enter after the daily bullish pattern**, with a stop-loss below the support, and aim for the next resistance (previous swing high) as the target ²⁸. This demonstrates how a higher timeframe trend plus a lower timeframe entry signal produce a high-probability trade setup.

Additional Entry Tips:

- **Don't Chase Extended Moves:** If a stock has already run up many days in a row and is far above support, *do not chase it* even if it still meets filters. Wait for the next consolidation or pullback. For example, if RSI is extremely high (>80) and price is, say, 20% above its 50-day MA, the stock might be due for a pause. It's better to be a bit late than to buy just before a dip. Let the stock come to your entry criteria; discipline is key.
- **Avoid Contradicting Signals:** If by any chance the weekly and daily signals conflict (say weekly uptrend but daily is in a sharp down swing that hasn't shown reversal yet), be patient. As a rule, **all signals should align in the same direction before entry** ⁵ ²³. A short-term dip against a long-term uptrend is fine *if* we see it stabilizing – but if daily is still making lower lows, wait until it bottoms out. Conversely, if daily gave a buy signal but the weekly is bearish, **skip the trade** – the probability of success is much lower when timeframes conflict ²⁹.
- **Limit Orders for Breakouts:** If using breakout entries, you might set a buy stop order a little above the resistance level (to automatically trigger when price breaks out). This way you don't have to watch constantly. But be mindful of potential false breakouts – sometimes it's wise to wait for a daily close above the level to confirm the breakout (even if that means buying slightly higher the next day).
- **Scan Nifty 500 for Setups:** Practically, each day or week you can run a scan on Nifty 500 stocks for those meeting the criteria: e.g., price above 200 DMA, RSI > 55, etc., and near breakout or

just turned up from a pullback. This narrows down candidates. Many charting platforms or Python scripts (using libraries and Yahoo Finance data) can help automate this search.

Exit Strategy and Trade Management

Knowing when to **exit** is as important as when to enter – especially since our philosophy is “hold until momentum fades.” We’ll use a combination of **stop-losses** (for risk control) and **momentum/trend reversals** (for profit-taking exits) to manage the trade.

0 Stop-Loss Placement (Risk Control)

Always set an initial **stop-loss** immediately after entering a trade. This protects you if the trade thesis fails (e.g., the breakout falters or the pullback turns into a deeper decline). Key guidelines for stop placement in this strategy:

- **Below the Recent Swing Low:** Place the stop just below a logical support on the daily chart. If you bought a breakout, a natural stop is just under the breakout level or the last minor swing low prior to breakout. If you bought on a pullback reversal, place the stop below the pullback’s low (the candle low of the bullish reversal, or below the technical support like the 50-day MA it bounced from). For instance, in the Infosys example, the entry was on a bullish daily pattern off support, so the stop-loss was set **below that support level** ²⁸. This way, if the stock invalidates the setup by making new lows, you exit quickly.
- **Percentage/ATR Based Stop:** Alternatively, you can use a fixed percentage (say 5-8% below entry for large-cap stocks, maybe slightly more for volatile mid-caps) or an ATR-based stop (e.g., 2 x ATR(14) below your entry). The Medium strategy cited used a 15% stop for a swing system to protect capital ³⁰, but that’s quite generous; you can adjust based on volatility. The idea is to give the trade some room (volatility buffer) but also cap the maximum loss.
- **Position Sizing:** Calculate your position size such that if the stop-loss is hit, you lose at most a small percentage of your capital (typically 1-2% of total trading capital on a single trade ³¹). This ensures no single bad trade will hurt you too much. For example, if your entry is ₹480 and stop is ₹460 (₹20 risk per share), and you don’t want to risk more than ₹5,000 of your capital, then buy at most 250 shares ($\text{₹}20 * 250 = \text{₹}5,000$ risk). **Proper position sizing** is crucial for long-term survival ³² ³³.
- **Adjusting Stops:** Once the trade starts moving favorably, consider moving the stop-loss up to lock in some profit or at least to break-even:
 - After a decent move (say the stock moves in your favor by an amount equal to your initial risk), you can **trail the stop** to just above your entry price – so the worst-case outcome becomes roughly zero (excluding any costs).
 - For more systematic trailing, you can use a **moving average or indicator**: e.g., trail stop below the 10-day MA or below each successive swing low as the stock moves up. Another popular tool is a **Parabolic SAR or Supertrend indicator** on daily – these give mechanical trailing stop points. The idea is to let winners run but not give back all gains if the trend reverses.

↳ Taking Profits & Exit Signals

Since our strategy doesn't predetermine a profit target (we ride the trend until it ends), exits are governed by signs of **momentum loss or trend reversal** on the daily chart, as well as reaching major technical levels. Here's how we exit:

- **Momentum Fading (Primary Exit):** A clear sign to exit is when the indicators that signaled a strong trend begin to weaken. For example:
- **RSI crosses below 50** on the daily *after* being above it during our trade. This often means the up swing is over or at least pausing deeply ¹⁰. In our rules, **RSI < 50** is an exit trigger because it indicates momentum has flipped to the bears or neutrality. Essentially, we used RSI > 55/60 to get in; when RSI drops under 50 again, the party is likely over – time to secure profits.
- **MACD bearish crossover or histogram flips negative.** If we entered on a MACD up-cross, the opposite cross (MACD line below signal line) is a warning sign. Similarly, if the MACD histogram was green and starts printing red (negative) bars, momentum is now waning. That's a cue to tighten stops or exit.
- **ADX falls and +DI crosses below -DI (directional index lines).** If ADX was high and starts dropping sharply, it means trend strength is decreasing. A crossover of the DI lines (bullish to bearish) would confirm bears are overtaking bulls. One could exit when **ADX turns down from a peak or when +DI < -DI** if using directional indicators.
- **Price Breaks Trend/Support (Secondary Exit):** Exiting when price violates a key trend level:
 - If the stock **closes below the 20-day moving average or below the trendline** that was supporting the advance, it often indicates the swing uptrend is done. The Medium strategy example uses **price breaking below the 200-day MA or RSI < 50 as exits** for its momentum system ¹⁰ – since we are shorter-term, we can use a closer average like 20-day or 50-day for exit. In practice, once the price closes below the 50-day MA in a swing trade, it's a strong sign the intermediate trend is broken and you should exit (if not earlier).
 - Similarly, breaking below the **last swing low** on daily is a sign the pattern of higher lows is over. If you trail stops below higher lows, this will naturally take you out when a significant support is broken.
- **Resistance / Price Target:** Although we plan to hold until momentum fades, it's wise to be aware of **overhead resistance levels or price targets**:
 - Mark the **previous swing high or an all-time high** as a potential resistance. Often the price might stall there. You might choose to book partial profits as the stock approaches a major resistance, rather than risk a full reversal. Nothing wrong with taking, say, half off the table when a stock reaches a pre-identified target (like a prior peak or a measured move). You can let the rest run with a trailing stop. This way you secure some gains and still participate if the trend continues. For example, in the Infosys case, they targeted the *previous swing high* as the take-profit level ²⁸.
 - If you have a specific reward goal (say you wanted a 2:1 reward-to-risk), you could exit when that is met. However, many trend-following swing traders will let a winner exceed traditional targets as long as it's making new highs with strength – that's the benefit of "till momentum ends" approach.

- **Time-based exit:** Generally, we don't force an exit just because a certain number of days have passed. But if a trade is going nowhere for too long (say 2-3 weeks) and tying up capital, you might rethink it. Maybe your premise is wrong or the stock is just consolidating. In such cases, tighten your stop – if it hasn't hit your stop but also hasn't progressed, a tight stop can free you if it dips, so you can rotate to a better opportunity.

To summarize the exit plan: We ride the uptrend until a **technical break** occurs, either in price (key support broken) or momentum (RSI/MACD flipping bearish). This way, we often give back a little off the top (no one can sell the highest high consistently), but we capture the bulk of the swing. The strategy inherently adapts to how far the swing goes – if it's a minor 5-day rally, maybe RSI will quickly dip and we exit with a modest gain; if it's a 5-week rally, we'll stay in all the way, perhaps moving stops upward as we go.

Tip: One advanced technique is a **stepped exit (scaling out)** to balance between securing profits and letting winners run ³⁴. For instance, you could sell half your position when up +10% (locking some profit), and trail the stop on the rest to ride further trend. The Medium system example took 50% profit at +15%, then the rest at +30% ⁹ – you can choose levels appropriate for the stock's volatility. Scaling out can smooth your equity curve but it's optional; the core exit remains based on technical change.

Re-entry: Sometimes after you exit, the stock may resume its uptrend again (maybe after a deeper pullback). The beauty of a rules-based approach is you can always re-enter on a fresh signal that meets the criteria again. Don't hesitate to re-buy a stock you exited, if it sets up once more. Just treat the new entry as a separate trade with its own stop, etc.

Risk Management and Optimization

No strategy is complete without solid risk management and continuous improvement. Here are additional considerations for making this strategy robust:

- **Risk-Reward and Win Rate:** Aim for trades where the **potential reward outweighs the risk** (e.g. at least 2:1). By riding trends, often you might get much more than 2:1 on winners, which can make up for small losers. Even if, say, only 50% of trades work out, with a 2:1 or better payoff on winners, the strategy will be profitable ³⁵. Use historical testing to see the typical risk/reward this strategy produces and adjust stop or entry to optimize it.
- **Avoid Overtrading:** Be selective – this strategy will typically generate a few good setups per week (depending on market conditions). If the market is choppy or most stocks are range-bound, signals will be fewer (because our ADX/RSI filters will filter them out). Stick to only high-probability setups that meet *all* criteria. Overtrading, especially in suboptimal conditions, can lead to whipsaw losses ³⁶.
- **Market Conditions:** The strategy works best in a **trending market** or a bullish broader market (since we focus on longs). If the overall market (Nifty indices) enters a correction, be cautious – you might tighten criteria or take fewer trades, since even strong stocks can succumb to broad market pressure. Conversely, in a roaring bull market, you might loosen some filters slightly to not miss out (but carefully). Always keep an eye on sector trends too – if many stocks in a sector are breaking out, that adds confidence to your pick in that sector.

- **Multi-Sector Diversification:** Since Nifty 500 covers various sectors, try not to put all trades in highly correlated stocks at the same time (e.g., 3 bank stocks in one go). Diversify across sectors if possible, to reduce the impact of any sector-specific risk.
- **News and Earnings:** Even with a technical strategy, be aware of company-specific events. Avoid holding trades through earnings announcements or important news releases, as gaps can defeat your stops. You might exit or reduce position before such events, or simply skip taking a new trade if earnings are in a day or two.
- **Psychology:** This strategy requires patience to wait for alignment and discipline to follow the exits. One common mistake is **exit winners too early** out of fear. Trust the indicators – if there's no exit signal yet, try to ride the trend. At the same time, **honor your stop-loss** without hesitation when a trade goes wrong – small losses are the cost of doing business. By sticking to the plan, you take emotion out of it, which is a major benefit of a rule-based system.

Backtesting and Implementation

Since the user requested a rule-based, backtestable strategy, it's important to verify its performance on historical data before trading real money. Here's how you can implement and test this strategy:

- **Data Sources:** Use Yahoo Finance data (which is convenient for EOD prices of Indian stocks) for backtesting. Yahoo's ticker format for Indian stocks is <TICKER>.NS (for NSE). For example, Reliance Industries is RELIANCE.NS, Infosys is INFY.NS, etc. Download daily historical data for a basket of Nifty 500 stocks or use an API/library (like yfinance in Python) to fetch the data programmatically.
- **Backtesting Tools:** You can code the strategy in Python using libraries like pandas (for data handling) and TA-Lib or pandas-ta (for technical indicators), or use a backtesting framework like Backtrader or zipline. Alternatively, platforms like TradingView allow you to write the strategy in Pine Script and run it on any stock chart (TradingView has NSE data). Since Groww will be your broker platform, note that Groww itself may not have backtesting features, but TradingView integrated charts on Groww could be used for some manual strategy testing/alerts. For systematic backtest, Python or TradingView is recommended.
- **Coding the Rules:** Translate the entry/exit criteria into code. For example:
 - Compute daily 200-day MA, 50-day MA, 10-day EMA, 20-day EMA, RSI(14), ADX(14).
 - Weekly trend filter: you could either fetch weekly data or derive weekly values from daily (e.g., weekly MA, weekly RSI). Simpler approach: require price > 200-day MA and maybe check a 50-day > 200-day (this roughly implies weekly uptrend).
 - Entry logic (in pseudocode):

```
If (close > MA200) and (close > MA50)
  and (RSI14 > 60) and (ADX14 > 20)
  and (close today > HighestClose of past 20 days)
Then: Buy next day at open (entry signal).
```

This represents a breakout entry. You can add volume filter like `and (today_volume > 1.5 * avg_volume_10)` if volume data is available. For a pullback entry variant, the condition might be:

```
If (close > MA200) and (close > MA50)  
    and (RSI14 yesterday < 50) and (RSI14 today > 50)  
    and (close today > close yesterday)  
Then: Buy (momentum turning up after dip).
```

You can experiment with such rules.

- Exit logic:

```
If (RSI14 < 50) or (close < MA20)  
Then: Sell next day at open (exit signal).
```

Also, implement stop-loss: e.g., if price drops X% from entry or below last swing low, exit. In code, you might track the entry price and exit if `close <= entry_price * (1 - stop_percent)`. Or you can simulate a stop by checking intraday low (which is hard with daily data unless you assume worst-case daily close as hitting stop).

- Use each trade's entry/exit to calculate returns, drawdowns, etc. Make sure to account for **brokerage or slippage** (for realism, subtract a small % or fixed fee per trade).
- **Measure Performance:** Look at metrics like **win rate, average win vs average loss, max drawdown, CAGR** over test period, etc. A good swing system might have win rate anywhere from 40-60%, but the winners should be larger than losers. Check if the strategy performs consistently in different market phases (bullish 2020-2021, volatile 2022, etc.). This is especially important in Indian markets which can have periods of both trend and range.
- **Optimize Carefully:** You can optimize parameters (like the RSI threshold 55 vs 60, ADX 20 vs 25, breakout period 20-day vs 10-day, etc.), but beware of overfitting. It's usually better to have robust, slightly conservative settings that work "good enough" across many stocks/timeframes, than to fine-tune for one stock's perfect result. The default values we chose are based on common practice and literature (e.g., ADX 25 is classic threshold for trend ⁹, RSI 50 is neutral line ¹⁷). Use a validation approach – e.g., test on 2018-2020, optimize, then see how 2021-2023 would have done with those settings (out-of-sample).
- **Backtesting Example:** For a quick illustration, if you backtested this strategy from 2020-2023 on a trending stock like **TCS (TCS.NS)**, you might observe that it caught the mid-2020 to 2021 rally with entries around breakouts and exited during the 2022 corrections when RSI fell under 50. On more volatile mid-cap stocks, you'll see more frequent trades. Pay attention to how it behaves in sharp corrections – sometimes an exit signal might lag; you can consider adding a faster stop in such cases.
- **Live Implementation:** Once satisfied with backtests, you can apply the strategy in a **semi-automated way**. For example, use a charting software to set alerts for when conditions meet (TradingView can alert when, say, RSI crosses a value and price crosses a level). Since Groww is a brokerage platform, you'd likely execute manually – but you can prepare by maintaining a

watchlist of stocks that meet weekly trends, and then daily check for entry triggers. Over time, you'll get a feel for typical patterns.

- **Continuous Learning:** Keep a journal of your trades from this strategy. Log if any trades did not work and see if any filter could have prevented a false signal (e.g., maybe add "avoid if earnings date is tomorrow" or "avoid if stock is extremely overextended"). Also note if you often exit too late – maybe incorporate a slightly earlier warning indicator. **No strategy is static;** treat this as a strong foundation that you can tweak based on your experience and evolving market conditions.

Conclusion

This multi-timeframe swing trading strategy leverages the best of trend following and momentum trading tailored to the Indian stock market. By **aligning weekly and daily charts**, it ensures we trade in harmony with the broader trend and **enter on optimal swing moments** ⁴. The use of technical indicators like moving averages, RSI, and ADX across timeframes provides objective rules to follow, removing much of the guesswork. We focus on Nifty 500 stocks to have a wide, diversified pool of candidates, and only commit capital when multiple signals agree – improving our probabilities of success ⁵.

The strategy's core philosophy is "**let winners run, cut losers fast.**" We let momentum dictate how long we hold a trade rather than a fixed deadline – selling only when the trend momentum shows signs of reversal. With disciplined stop-losses, we protect ourselves from large losses, and with trailing exits, we safeguard accrued profits. Risk management, from position sizing to avoiding impulsive trades, underpins the entire approach ³² ³⁶.

Remember that even the best strategy will have losing trades or flat periods; the key is consistency in execution. By backtesting and gaining confidence in the rules, you'll be more likely to stick to the plan during real trading. Market conditions may evolve, so always be ready to make data-driven adjustments – but avoid overriding the system on a whim.

In summary, the multi-timeframe momentum strategy provides a **structured, backtestable framework** to swing trade Indian stocks. It harnesses technical analysis to find stocks in strong uptrends (weekly context) and times entries on the daily chart at moments when a new price swing is likely to launch. By following these guidelines and continuously learning, you'll put the probabilities in your favor while trading "with the wind at your back" (the prevailing trend). **Aligning your trades with the broader trend is the edge that separates the signal from the noise** ⁶. Good luck, and happy trading!

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