

# Nubra.ionFeature Proposal: Auto Strategy Builder

## 1. Competitor Analysis: Backtesting / Algo / Hybrid Trading Platforms:

Platform	Unique Features	Gaps	Relevance to Nubra
QuantConnect	Cloud backtesting, multi-asset, supports many languages (C#, Python), community algorithms, research environment	Higher learning curve; pricing scales with usage; not as user-friendly for pure manual traders	Shows the possibility of a powerful backend with algorithm support
AlgoTrader	Institutional grade, supports full lifecycle (backtest → deploy → monitoring), integration with brokers	Expensive, complex for retail users, steep onboarding	Could inspire modular pricing or “lite” mode for retail
TradingView + Pine Script	Very accessible scripting embedded in charting; community scripts; ease of sharing	Backtesting is limited (especially with orders logic), deployment to live accounts is limited	Great model for bridging manual/chart traders into scripting
Katalyst / SignalStack / Streak (India)	Some support for retail algo creation without heavy coding; drag & drop logic	Restricted features, limited customization, performance constraints	Good benchmark for India / local market feasibility
Backtrader / Zipline (open-source frameworks)	Flexible, free, good for custom algo development	Requires setup, coding, infrastructure, less UI/UX support	Useful for building internal engine or enabling advanced users

## Insights / Gaps to Exploit:

- Many platforms are either “too technical” for mainstream manual traders, or too simplistic to be useful.
- The transition from “observe/execute manually” → “script / automate decisions” is often blocked by lack of interface support, fear of code, and trust.
- There is a niche for **semi-automated** / “**suggested automation**”: the system watches what the manual trader does and then helps them convert it into an algorithm.
- Visual logic builders (drag-drop, conditional blocks) are powerful bridges.
- Integrations with broker APIs and real marketplace execution matter, but also risk/monitoring, simulation, alerts, and backtesting ease are key.

## 2. Proposed Feature: “Trade Replay & Auto-Script Generator”:

**Feature Name (tentative):** *Auto Strategy Builder / Replay to Algo*

### Concept

Allow a manual trader to **replay their past trades (or recent actions in watchlist / chart)** in a sandbox environment, then **convert** that behavior into a skeleton algorithm which the user can review, test, tweak, and deploy.

### Why It Helps

- It lowers the barrier: traders don't have to start from scratch; they see “this is exactly what I did, now we'll turn it into code.”
- It builds trust: you visualize what the bot will do based on *your past logic*.
- It bridges the gap: manual → semi-automated → fully automated.
- It serves as an educational tool: showing the mapping from actions to code / rules.

### Workflow / Key Steps

1. **Select time window / trades** — user picks a date range or number of recent trades (or manually selected trades) from their history / watchlist.
2. **Replay mode** — system replays the market movement + the user's entries/exits in a simulation environment.
3. **Suggest rules / conditions** — based on the replay, system infers (or allows user to tag) key decision points (e.g. “I bought when the price broke the 50-day MA and RSI < 30”).
4. **Visual logic builder** — user sees a block-diagram or conditional builder of the inferred logic, can adjust thresholds, add filters or steps.
5. **Backtest & simulate** — run the generated strategy on historical data, show metrics (drawdown, returns, hit rate).

6. **Deploy or paper trade** — option for live deployment (with monitoring and safety checks) or paper mode.
7. **Continuous learning** — after deployment, the system can detect where the actual behavior deviates from the generated logic, and suggest refinements.

## Key UI / Functional Requirements

- Replay slider interface (timeline + controls)
- Overlay manual trade markers (entry, exit)
- Inference panel that suggests conditions or decision nodes
- Block / flow / decision tree UI to refine logic
- Backtest results dashboard
- Safety toggles (max drawdown, stop loss, circuit breakers)
- Versioning and iteration: user can generate multiple candidate strategies from different replay windows

Potential additional enhancements: community-shared auto-strategies, minor code editing (for advanced users), AI-based suggestion / tuning.

## 3. Wireframe Concept:

Below is a sketch of how screens might flow / layout.

### Screen 1: “Replay Trades / Select History”

- Header: “Auto Strategy Builder”
- Panel: Date picker / trade window selector
- Button: “Start Replay”
- Below: list / table of recent trades with checkboxes to include/exclude

### Screen 2: “Replay View + Trade Overlay”

- Main chart area with price / indicators
- Timeline slider at bottom (play / pause / speed)
- Markers on chart showing actual trades (entry / exit)
- Side panel: “Inferred Decisions” — showing e.g. “Bought when price above X”
- Button: “Generate Strategy”

### Screen 3: “Logic Builder / Strategy Editor”

- Left pane: flow / block diagram of decision logic
- Each block: condition node (e.g. price > MA, RSI < threshold)
- Ability to add / edit / remove nodes
- Right pane: parameters, thresholds, toggles (stop loss, trailing, etc.)

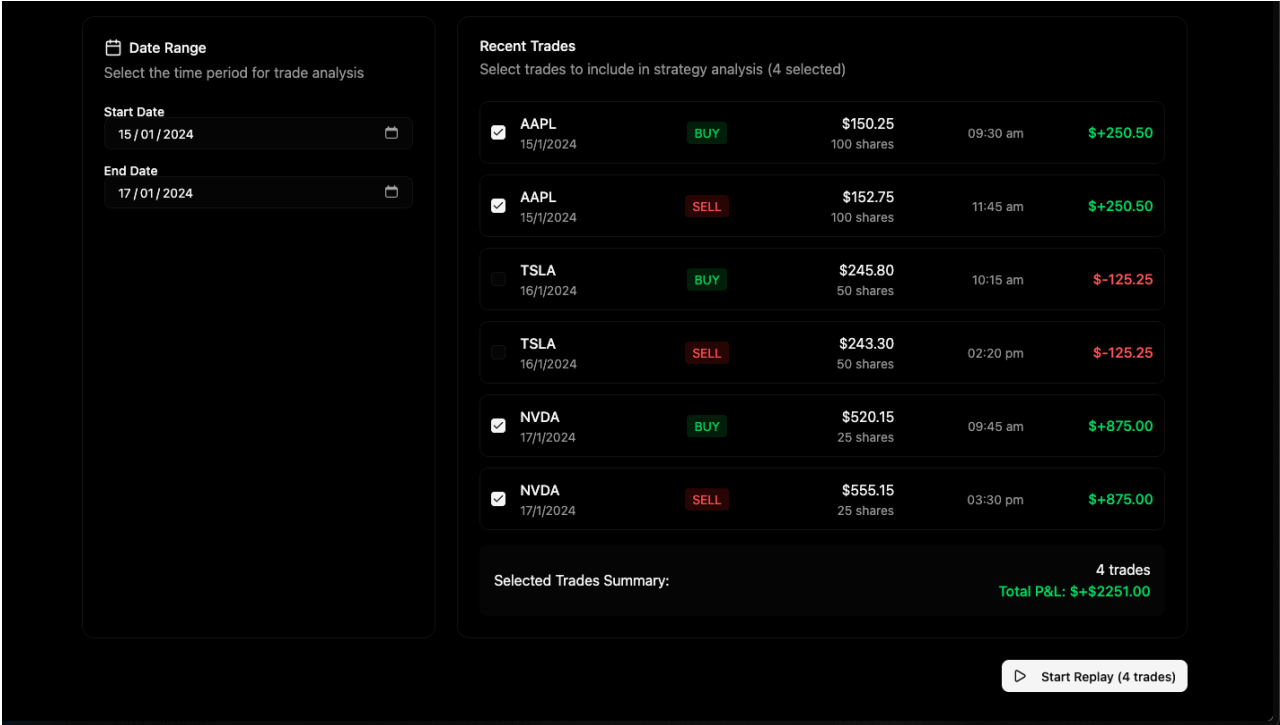
- Buttons: “Backtest”, “Simulate”, “Save Draft”

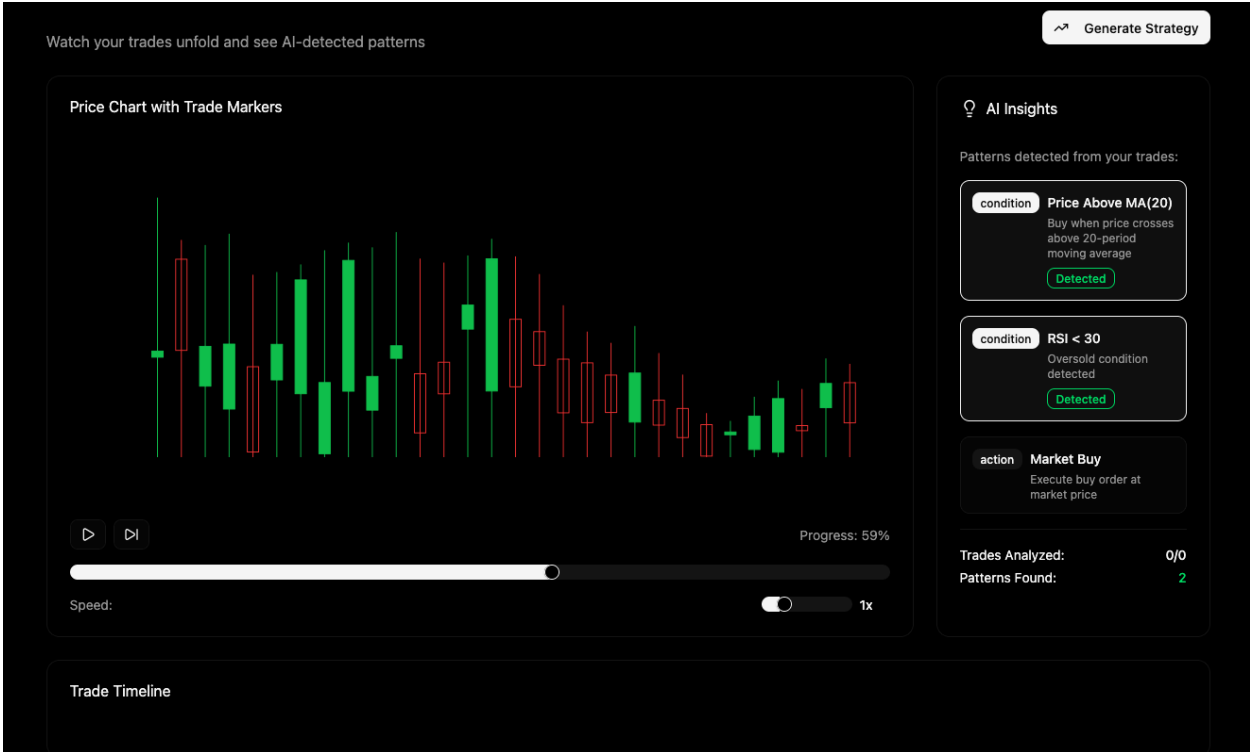
Screen 4: “Backtest / Simulation Results”

- Performance charts: equity curve, drawdowns, returns
- Metrics table: win rate, profit factor, max drawdown, number of trades
- Bottom: buttons: “Deploy Live”, “Paper Trade”, “Refine Strategy”

Screen 5: “Monitoring & Refinement”

- Live vs expected performance (chart overlay)
- Suggestions / drift detection: “Your manual trades frequently deviated here — consider adjusting threshold”
- Version history / rollback





Design your automated trading strategy using visual blocks

Save Draft Simulate Backtest Strategy

Strategy Flow

+ Condition + Action

Drag and connect blocks to build your trading logic

Entry Conditions

1 Price Above MA(20)

Buy when price crosses above 20-period moving average

Condition

2 RSI < 30

Oversold condition detected

Condition

3 Stop Loss

Exit position if loss exceeds threshold

Condition

↓

Entry Actions

1 Market Buy

Execute buy order at market price

Action

Strategy Parameters

Risk Management

Stop Loss (%)

2.5%

Take Profit (%)

5%

Trailing Stop

Risk per Trade (%)

1%

Node Settings: Price Above MA(20)

Title

Price Above MA(20)

Description

Buy when price crosses above 20-period moving

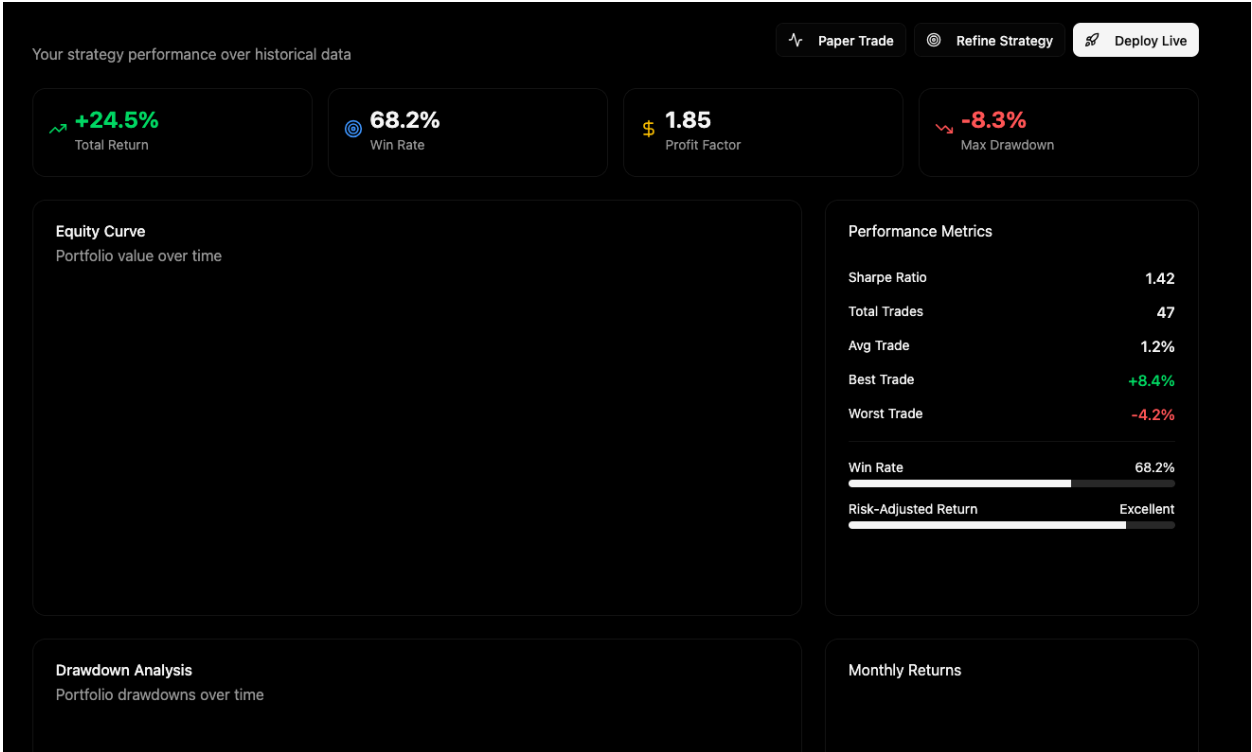
Threshold

Enter threshold value

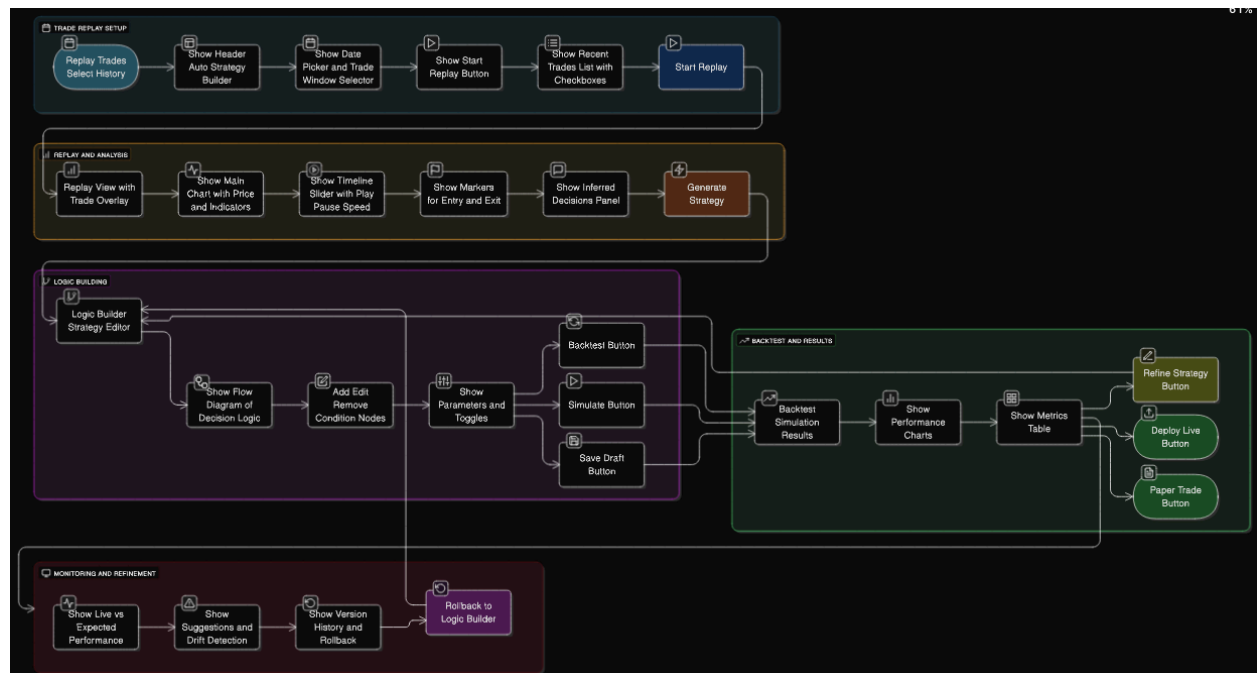
Period

20

Delete Node



## 4. Workflow FlowChart:



## 5. Conclusion:

The proposed **Trade Replay & Auto-Script Generator** bridges the gap between manual and algorithmic trading by transforming a trader's historical actions into actionable, automated strategies. By leveraging a visual, intuitive interface and step-by-step workflow, it lowers the technical barrier, builds trust, and encourages adoption of algo trading. Competitor analysis shows a clear market gap for retail-friendly, semi-automated tools, making this feature a strategic enhancement for Nubra. Implementing this will not only increase user engagement but also position Nubra as a forward-thinking platform that empowers traders to evolve with technology while retaining control and confidence in their strategies.