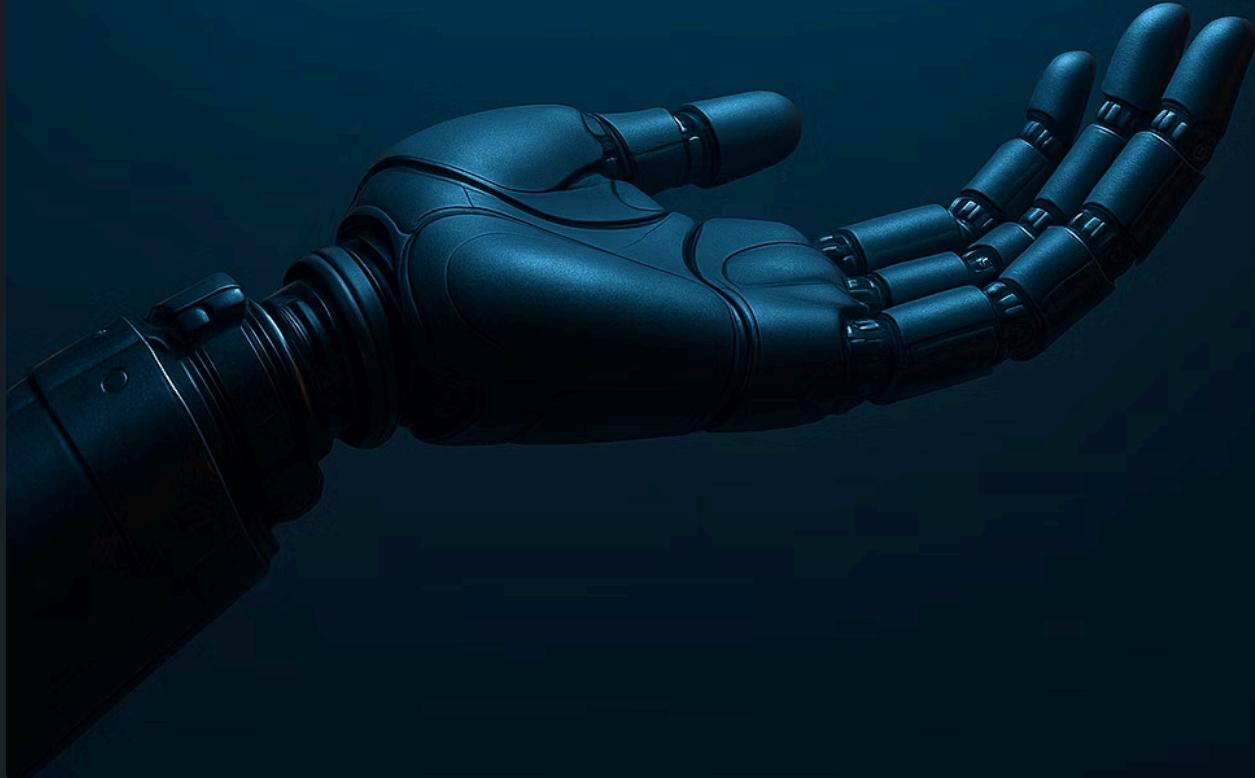


AI_Trading_Genius

Project Presentation



Project Overview

AI Trading Genius leverages machine learning, real-time data analysis, and automated execution to empower traders with intelligent, data-driven decisions.

AI-Powered

Intelligent, data-driven decisions.

Real-time

Live market analysis and execution.

Automated

Streamlined trading processes.

Key Features: Core Functionality

Machine Learning Predictions

- Analyze real-time market data
- Generate actionable trading signals

Risk Management & Portfolio Optimization

- Custom stop-loss & position sizing
- Real-time portfolio risk scoring

Paper Trading & Live Trading Modes

- Safely test strategies without risking capital

Interactive Dashboard

- Streamlit UI with Plotly visualizations
- Clear metrics and controls

Key Features: Advanced Tools



Strategy Backtesting

Simulate performance over historical data.

Emergency Stop

Instantly halt all trading activities.

Technology Stack

Core Technologies

- Python
- Streamlit (Web App)
- Plotly (Charts & Analytics)

Custom ML Models & Strategies

- Data Processor
- ML Model Manager
- Strategy Manager
- Risk Manager

System Modules

- Portfolio Manager
- AI Advisor
- Backtester
- Trade Executor

System Dashboard

The interactive dashboard provides a comprehensive overview of portfolio value, daily P&L, open positions, and risk score. All amounts are in Indian Rupees (₹).

The screenshot shows the 'IN AI Trading System - Indian Stock Market' interface. On the left, a sidebar contains 'System Controls' (Paper Trading Mode, EMERGENCY STOP), 'System Status' (System Stopped, Paper Trading), and a 'Trading Dashboard' section. The main area has a dark header with a red 'CRITICAL DISCLIMER' message: 'This system is for educational purposes only. Trading involves substantial risk of loss. Only risk capital you can afford to lose completely.' Below the header are tabs for Dashboard, AI Strategies, Performance, Risk Management, Backtesting, and Settings. The 'Dashboard' tab is selected. It displays key metrics: Portfolio Value (₹8,300,000.00), Daily P/L (₹0.00), Open Positions (0), and Risk Score (4.49). An 'Exchange Rate' section shows USDINR at ₹83.0000. A 'Market Overview' section is currently empty. The 'Current Positions' section also shows 'No open positions'. The 'Active Strategies' section lists several strategies: 'neural_momentum - active', 'ensemble_trend - active', 'ai_pattern - active', 'adaptive_mean_reversion - active', and 'multi_factor - active'. A note at the bottom states: 'All trading amounts shown in Indian Rupees (₹)'. Buttons for 'Start Trading System' and 'Stop Trading System' are visible, along with a 'Refresh Data' button.

AI-Powered Trading Strategies

Configure and manage active AI strategies, including Ensemble Trend and Neural Network, with customizable max position size, stop loss, and take profit percentages.

The screenshot displays the IN AI Trading System interface for the Indian Stock Market. On the left, a sidebar includes 'System Controls' (Paper Trading Mode checked, Emergency Stop button), 'System Status' (System Stopped), and 'Paper Trading'. The main dashboard features a header with the system name and a critical disclaimer about trading risks. Below the header are sections for 'AI-Powered Trading Strategies', 'AI Market Analysis' (Generate AI Market Insights button), and 'Strategy Performance' (Strategy performance data will appear after trading begins). On the right, the 'Strategy Configuration' section allows users to select active strategies (Neural Network, Ensemble Trend), set parameters like Max Position Size (5%), Stop Loss (3%), and Take Profit (8%), and update the configuration.

Performance Analysis

Monitor portfolio performance and key risk metrics such as Portfolio VaR, Sharpe Ratio, Max Drawdown, and Beta. Update risk parameters for optimal control.

IN AI Trading System - Indian Stock Market

NSE/BSE Automated Trading • All amounts in Indian Rupees (₹)

CRITICAL DISCLAIMER: This system is for educational purposes only. Trading involves substantial risk of loss. Only risk capital you can afford to lose completely.

Important Risk Warnings

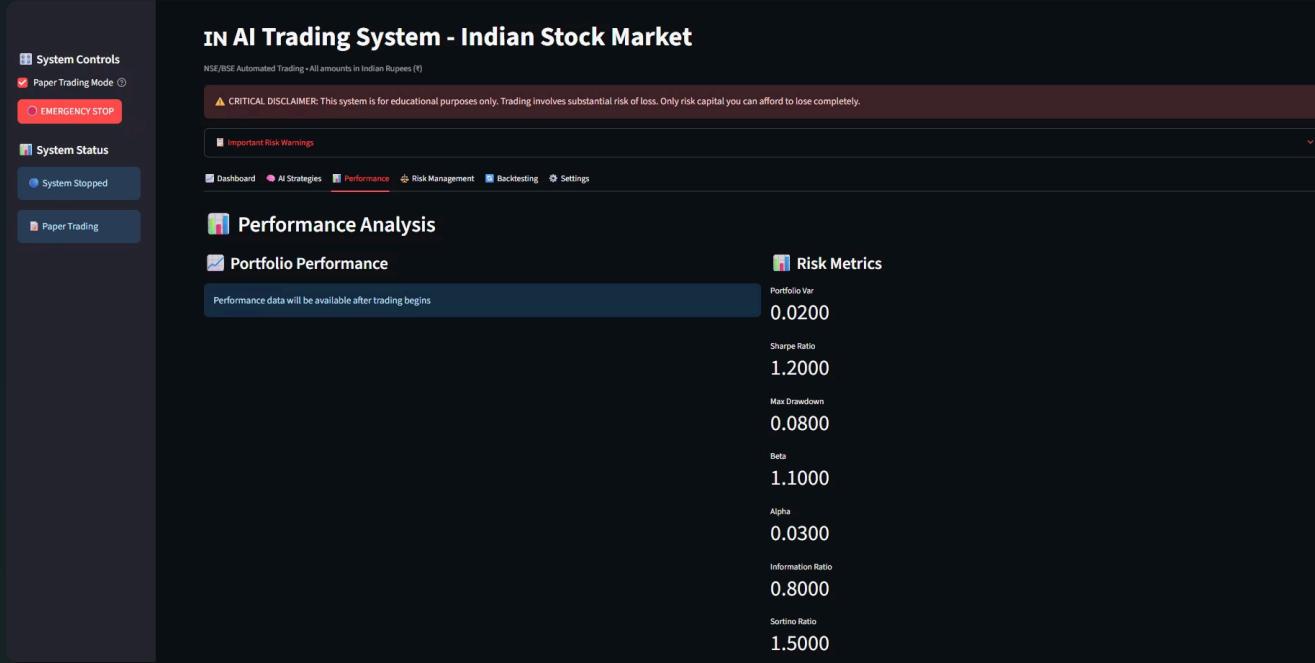
Performance Analysis

Portfolio Performance

Performance data will be available after trading begins

Risk Metrics

Portfolio VaR	0.0200
Sharpe Ratio	1.2000
Max Drawdown	0.0800
Beta	1.1000
Alpha	0.0300
Information Ratio	0.8000
Sortino Ratio	1.5000



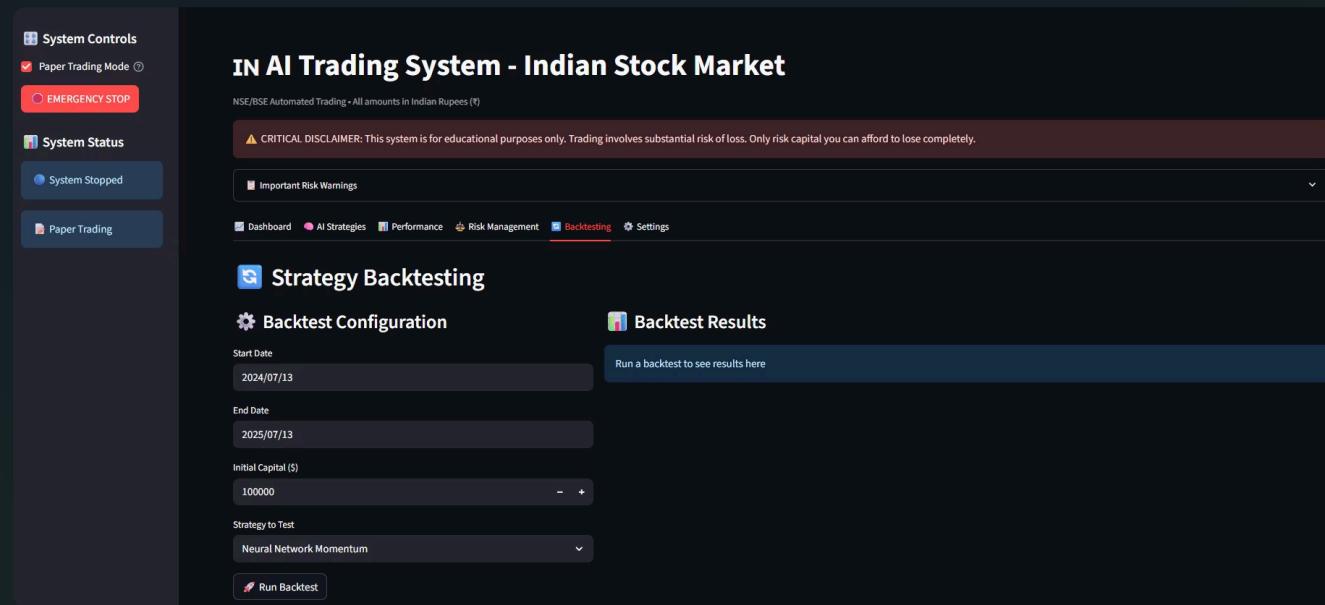
Risk Management & Portfolio Optimization

- Custom stop-loss & position sizing
- Real-time portfolio risk scoring

The screenshot shows the IN AI Trading System interface for the Indian Stock Market. On the left, there's a sidebar with 'System Controls' (Paper Trading Mode, Emergency Stop), 'System Status' (System Stopped), and 'Paper Trading'. The main area has a title 'IN AI Trading System - Indian Stock Market' and a critical disclaimer about trading risks. Below that is a navigation bar with links to Dashboard, AI Strategies, Performance, Risk Management (which is active and highlighted in red), Backtesting, and Settings. The central part of the screen is the 'Risk Management' section, which includes 'Risk Controls' (Maximum Portfolio Risk % at 5.00, Maximum Position Size % at 10.00, Global Stop Loss % at 5.00) and a button to 'Update Risk Parameters'. To the right is the 'Current Risk Status' section, which displays four green status boxes: 'Portfolio Risk: 3.00%', 'Position Concentration: 8.00%', 'Daily Loss: 1.00%', and 'Leverage: 130.00%'. Each box contains a checked checkbox icon.

Strategy Backtesting Module - AI Trading System (Indian Stock Market)

- This module allows users to simulate and evaluate trading strategies on historical data using AI techniques like **Neural Network Momentum**.
- Users can configure parameters such as **capital**, **date range**, and **strategy type** before running a backtest.
- It helps in identifying profitable strategies before live deployment, minimizing real-world risk and improving decision-making.



System Settings - AI Trading Platform Configuration

- This panel allows users to define **trading parameters** such as execution frequency, max trades per day, and commission rate to simulate realistic trading conditions.
- It includes **API and data source integrations**, such as Yahoo Finance for live data and optional OpenAI API for AI-enhanced features.
- Users can perform system maintenance tasks like **clearing cache** and **exporting logs** to ensure smooth and auditable operation.

The screenshot shows the 'IN AI Trading System - Indian Stock Market' configuration page. On the left, a sidebar titled 'System Controls' includes 'Paper Trading Mode' (checked), 'EMERGENCY STOP' (button), 'System Status' (System Stopped), and 'Paper Trading' (button). The main content area has a header 'IN AI Trading System - Indian Stock Market' and a sub-header 'NSE/BSE Automated Trading • All amounts in Indian Rupees (₹)'. A critical disclaimer at the top states: 'CRITICAL DISCLAIMER: This system is for educational purposes only. Trading involves substantial risk of loss. Only risk capital you can afford to lose completely.' Below this are sections for 'Important Risk Warnings' (dropdown menu), 'Dashboard', 'AI Strategies', 'Performance', 'Risk Management', 'Backtesting', and 'Settings' (selected). The 'System Settings' section contains 'Trading Parameters' (Trading Frequency: 1 minute, Max Trades Per Day: 10, Commission Rate (%): 0.10) and 'API Configuration' (OpenAI API: Not Found). The 'Data Sources' section lists 'Yahoo Finance' as active. The 'System Actions' section includes 'Clear Cache' and 'Export Logs' buttons.

Benefits of AI Trading Genius



Accessible

Institutional-grade tools for individual investors.



Safe

Strong risk controls and paper trading mode.



Intelligent

AI-powered insights for confident decisions.



Transparent

Real-time performance and logs.

Disclaimer & Contact

- ⊗ **IMPORTANT:** This system is for educational purposes only. Trading involves significant risk of loss. Use only risk capital you can afford to lose.

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