

# SmartStoxVest – User Manual Guide

## 1. Overview

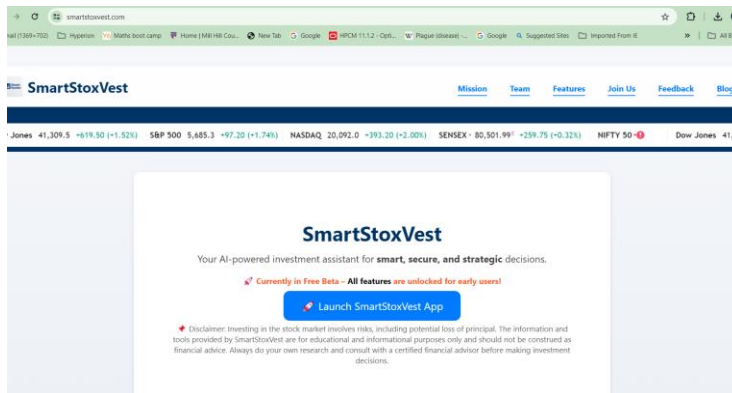
SmartStoxVest is a full-stack investment insight tool that helps users analyze stock performance using AI-powered models for:

- Short-Term Analysis (Candlestick, SMA, RSI)
- Medium-Term Prediction (LSTM Neural Networks)
- Long-Term Forecasting (Monte Carlo Simulation)

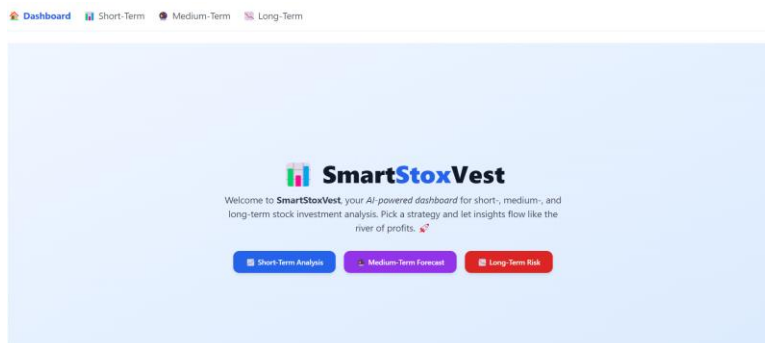
It is built using FastAPI (backend) and React + Tailwind (frontend).

## 2. Getting Started

1. Go to <https://SmartStoxVest.com>



2. Click **Launch SmartStoxVest App**
3. Home Page: You'll land on the dashboard with navigation options:



- Short-Term Analysis
- Medium-Term Forecast
- Long-Term Forecast

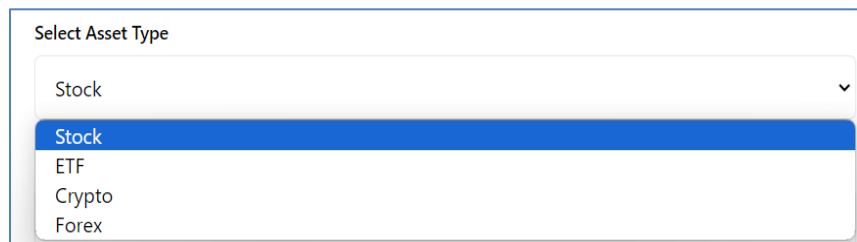
### 3. Short-Term Analysis

Purpose: Visualize daily/weekly stock performance with indicators like:

- Candlestick Charts
- Simple Moving Averages (SMA)
- Relative Strength Index (RSI)

How to Use:

1. Selected Asset Type from dropdown:



Select Asset Type

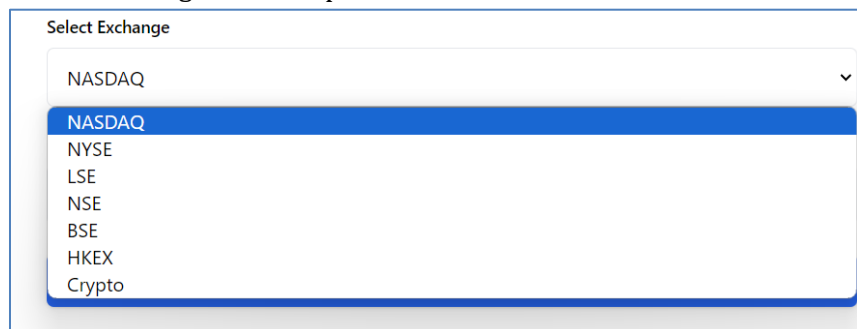
Stock

ETF

Crypto

Forex

2. Select Exchange from dropdown :



Select Exchange

NASDAQ

NYSE

LSE

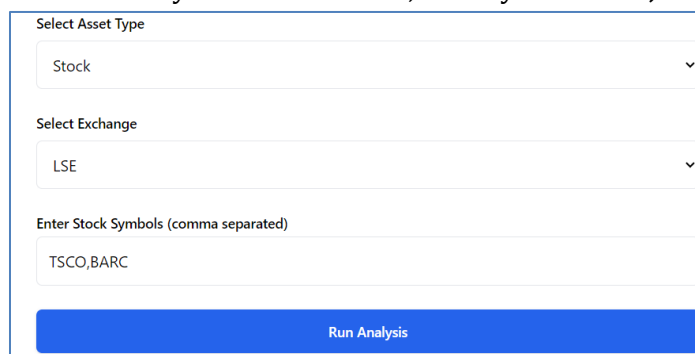
NSE

BSE

HKEX

Crypto

3. Enter Stock Symbol i.e for Tesco, Barclay use **TSCO,BARC**



Select Asset Type

Stock

Select Exchange

LSE

Enter Stock Symbols (comma separated)

TSCO,BARC

Run Analysis

#### 4. Click Run Analysis

**Short-Term Stock Analysis**

Select Asset Type  
Stock

Select Exchange  
LSE

Enter Stock Symbols (comma separated)  
TSCO, BARC

Run Analysis

Download Results as CSV

Symbol	Current	Predicted	RSI	Volatility	SL / TP	Decision	News	Final
TSCO	£371	£378.42	30.4	0.0191	£359 / £391	▲ Hold (Overbought)	Neutral News - Hold	Review Further
BARC	£301.05	£307.07	81.92	0.0204	£287 / £325	▲ Hold (Overbought)	Neutral News - Hold	Review Further

View Detailed Charts

-- Select Symbol --

#### 5. Under View Detailed Char Select Symbol

**View Detailed Charts**

-- Select Symbol --

-- Select Symbol --

-- Select Symbol --

-- Select Symbol --

#### 6. Select Chart Type

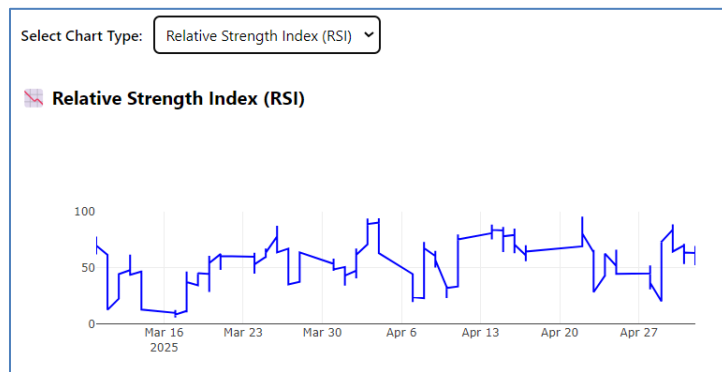
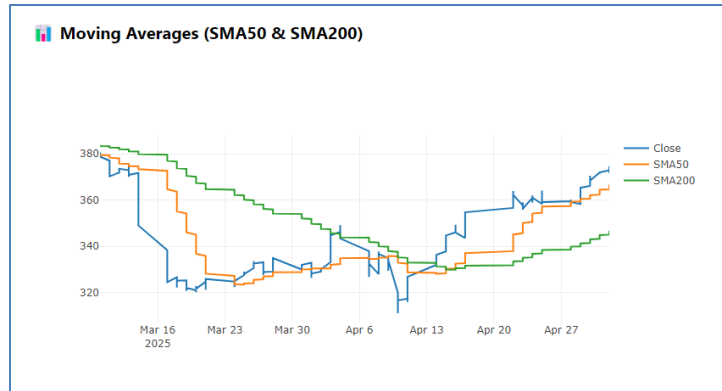
**View Detailed Charts**

TSCO

Select Chart Type: Candlestick

Candlestick  
Moving Averages (SMA)  
Relative Strength Index (RSI)





### Features:

- Interactive chart with zoom
- RSI line with 30/70 thresholds
- Responsive on mobile

## 4. Medium-Term Forecast (LSTM)

Purpose: Predict stock prices for the next few weeks using LSTM (Long Short-Term Memory) neural networks.

How to Use:

1. **Select Asset Type->Exchange and then Enter Stock Sybmol** same as Short Term

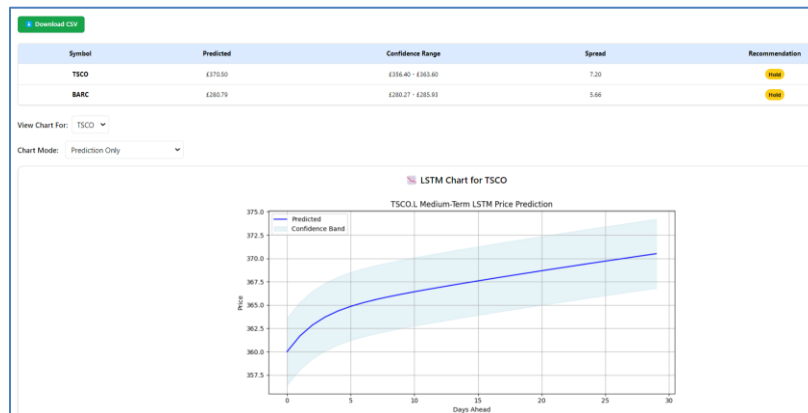
### Medium-Term Stock Analysis

Select Asset Type  
 Stock

Select Exchange  
 LSE

Enter Stock Symbols (comma separated)  
 TSCO,BARC

Run Analysis



You can also select Chart for various stock symbol

View Chart For: TSCO

Chart Mode: TSCO, BARC, Confidence Bands

1. App fetches historical data
2. LSTM model trains in real time
3. Output:
  - Predicted price chart
  - Confidence intervals
  - Summary cards (e.g., trend direction, expected return)

### Features:

- Dynamic chart with prediction overlays
- Download CSV forecast

## 5. Long-Term Forecast (Monte Carlo)

Purpose: Simulate 1000+ future price paths using Monte Carlo to assess long-term risk and return.

How to Use:

1. Select Asset Type ->Exchange -> Enter Stock details similar to Short Term Analysis

Select Asset Type

Stock

Select Exchange

LSE

Enter Stock Symbols (comma separated)

TSCO,BARC

Run Analysis

2. Click "Run Analysis"

Long-Term Risk Analysis

Select Asset Type

Stock

Select Exchange

LSE

Enter Stock Symbols (comma separated)

TSCO,BARC

Run Analysis

Summary Table

Download CSV


Symbol	Current	Worst Case	Best Case	Expected Return	SMA200	Volatility	Decision
TSCO	£371.00	£276.13	£561.00	51.21%	£356.96	0.0151	Red
BARC	£301.05	£211.68	£663.83	120.51%	£260.59	0.0204	Red

Select a stock to view simulation chart

-- Select Stock --

Chart Type: Line

Then you can select a stock to view Simulation chart

 Select a stock to view simulation chart:

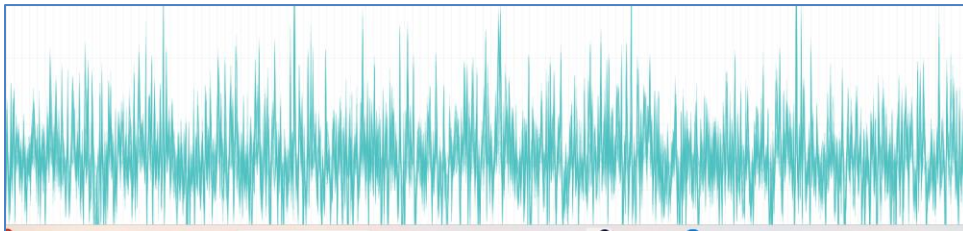
-- Select Stock --

-- Select Stock --

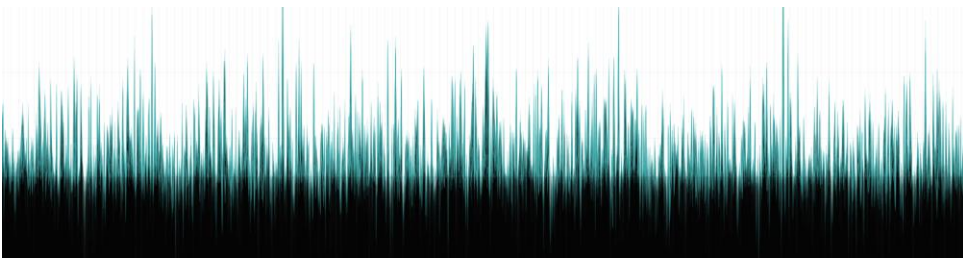
TSCO

BARC

### **Line Chart**



### **Area Chart**



### **3. Outputs:**

- Chart of multiple price paths
- Percentile ranges (10th, 50th, 90th)
- Probabilities: e.g., chance of loss/gain

### **Features:**

- Customizable simulation count
- Visualize expected return range
- Shows Value at Risk (VaR) and probability of decline

### **6. Pro Tips**

- Use Short-Term to spot entry/exit signals

- Use Medium-Term for trend following
- Use Long-Term for retirement/portfolio planning
- Bookmark forecasts or export for financial reviews

## **7. Feedback & Support**

We love feedback! Drop your thoughts via the feedback form in the app or email us at:  
**@smartstoxvest@gmail.com**