

# AI FOR STOCK RECOMMENDATION SYSTEMS

Thai stock market has been relatively sluggish and lacks clear direction, causing uncertainty for many investors in selecting high-potential stocks. To address this, we have developed a stock analysis tools to designed to monitor, analyze, and select interesting stocks in the Thai market with accuracy and efficiency.

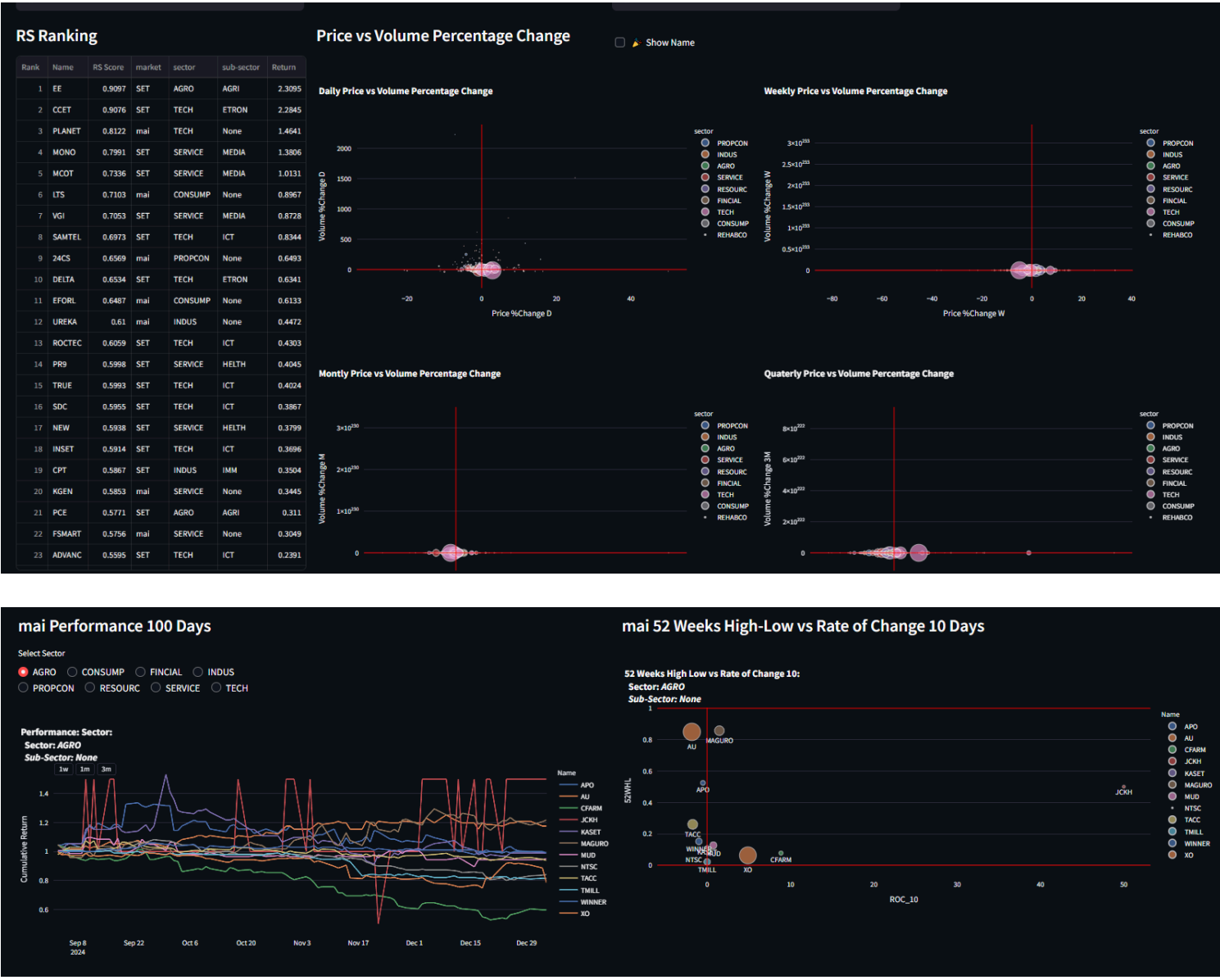
This Tool would be an assistant capable of processing data to identify trends and hidden opportunities in various stocks, helping investors make well-informed and confident decisions. Our goal is to create a tool that makes investing in the Thai stock market easier and more rewarding.

## 1. ISSUES AND MOTIVATION

Investors face difficulties analyzing large volumes of data and making timely decisions in volatile markets. Traditional methods are prone to bias and inefficiency. AI addresses these issues by automating analysis and providing accurate, real-time stock recommendations by using price, volume, and market cap to analyze the market.

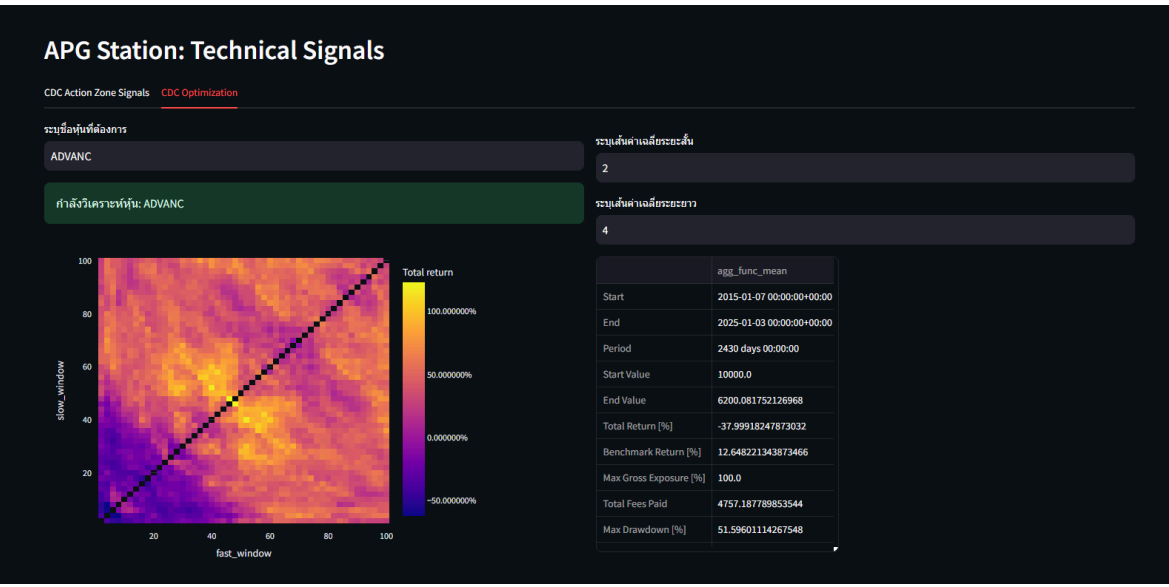
## 2. FEATURES AND FUNCTIONS

### MARKET OVERVIEW

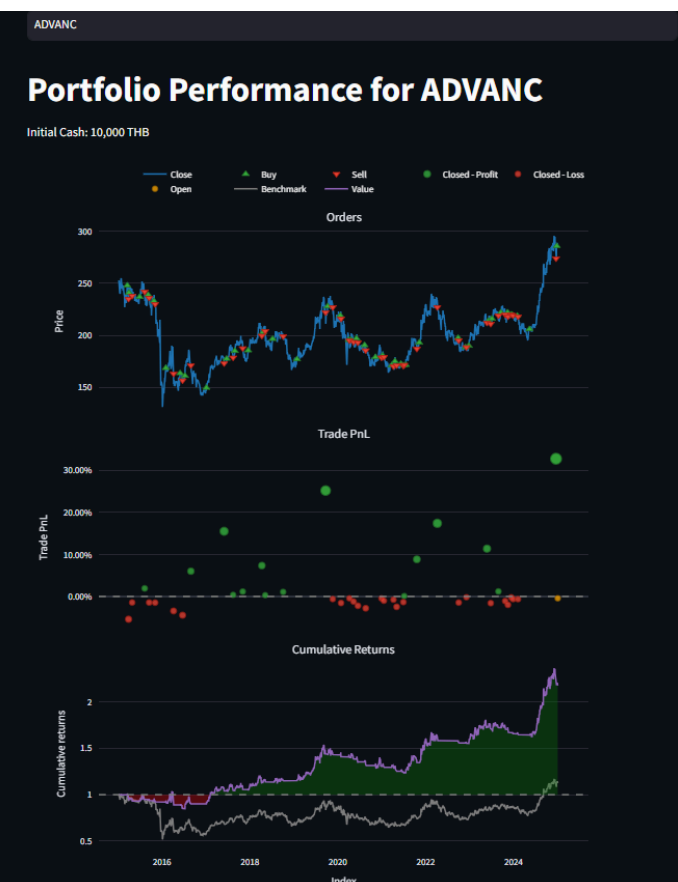
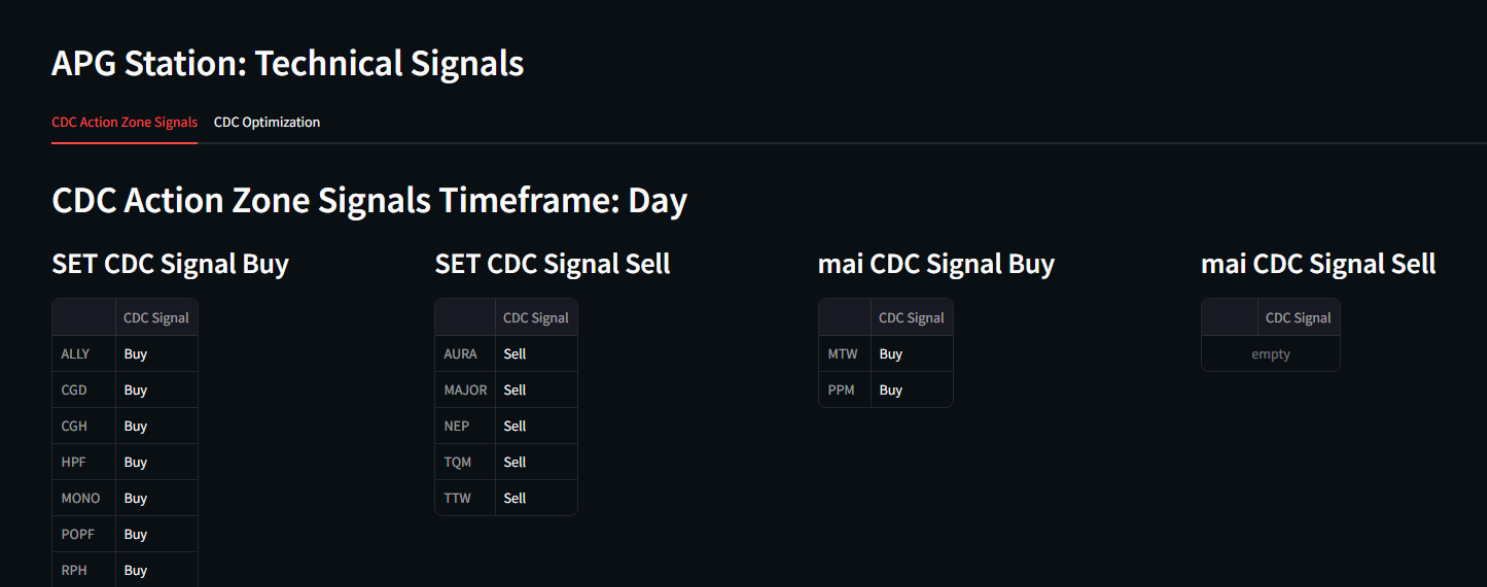


- RS Ranking – reflects which stocks in the market currently have the strongest price performance.
- Price vs Volume Percentage Change – Shows changes in different time frames like 1 day, 1 week, 1 month, or a quarter.

### TECHICAL SIGNALS



CDC optimization for technical signal analysis, using a heatmap to display total returns from different moving average combinations. Each point represents a pair of moving average periods, with higher values indicating better performance. The goal is to identify the combination that maximizes returns, guiding users to the most profitable settings.

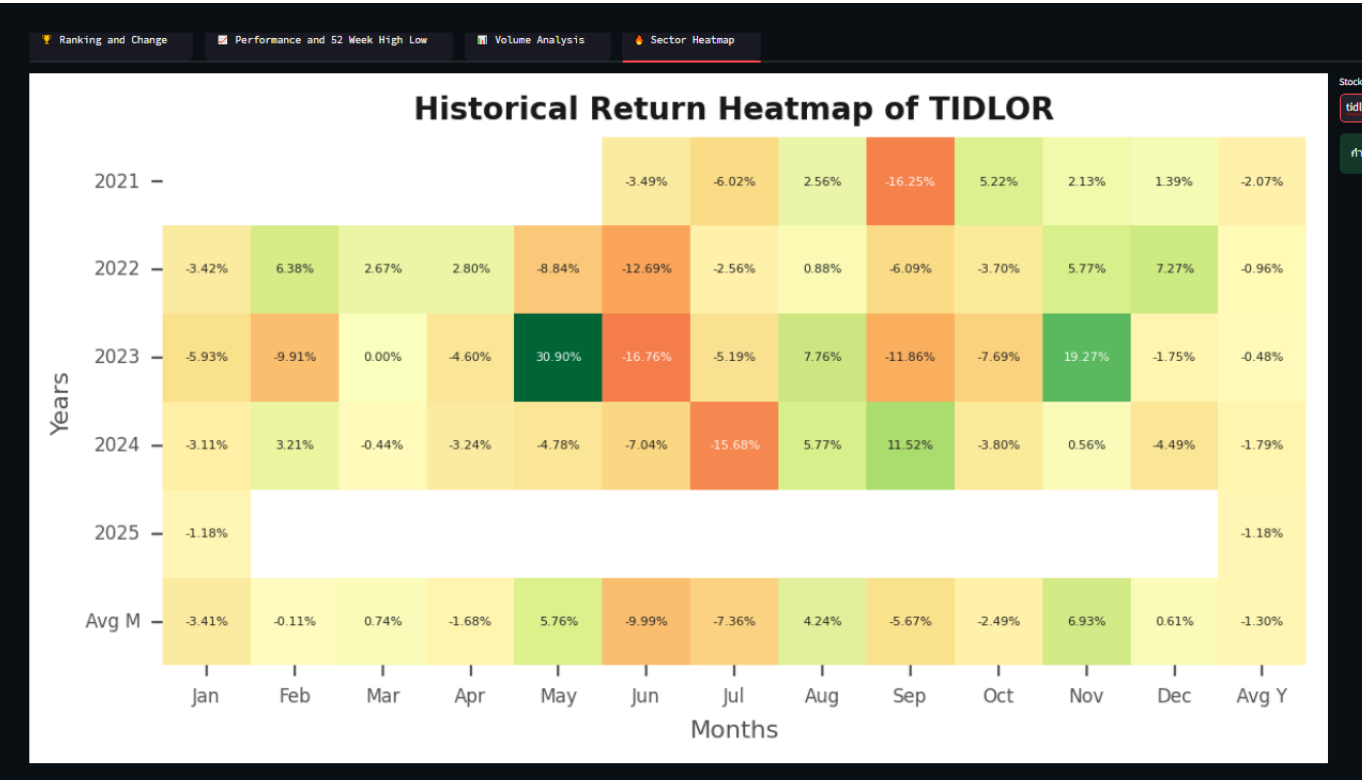


CDC is a strategy that uses the crossover between short-term and long-term moving averages. When the short-term average crosses above the long-term average, it generates a buy signal.

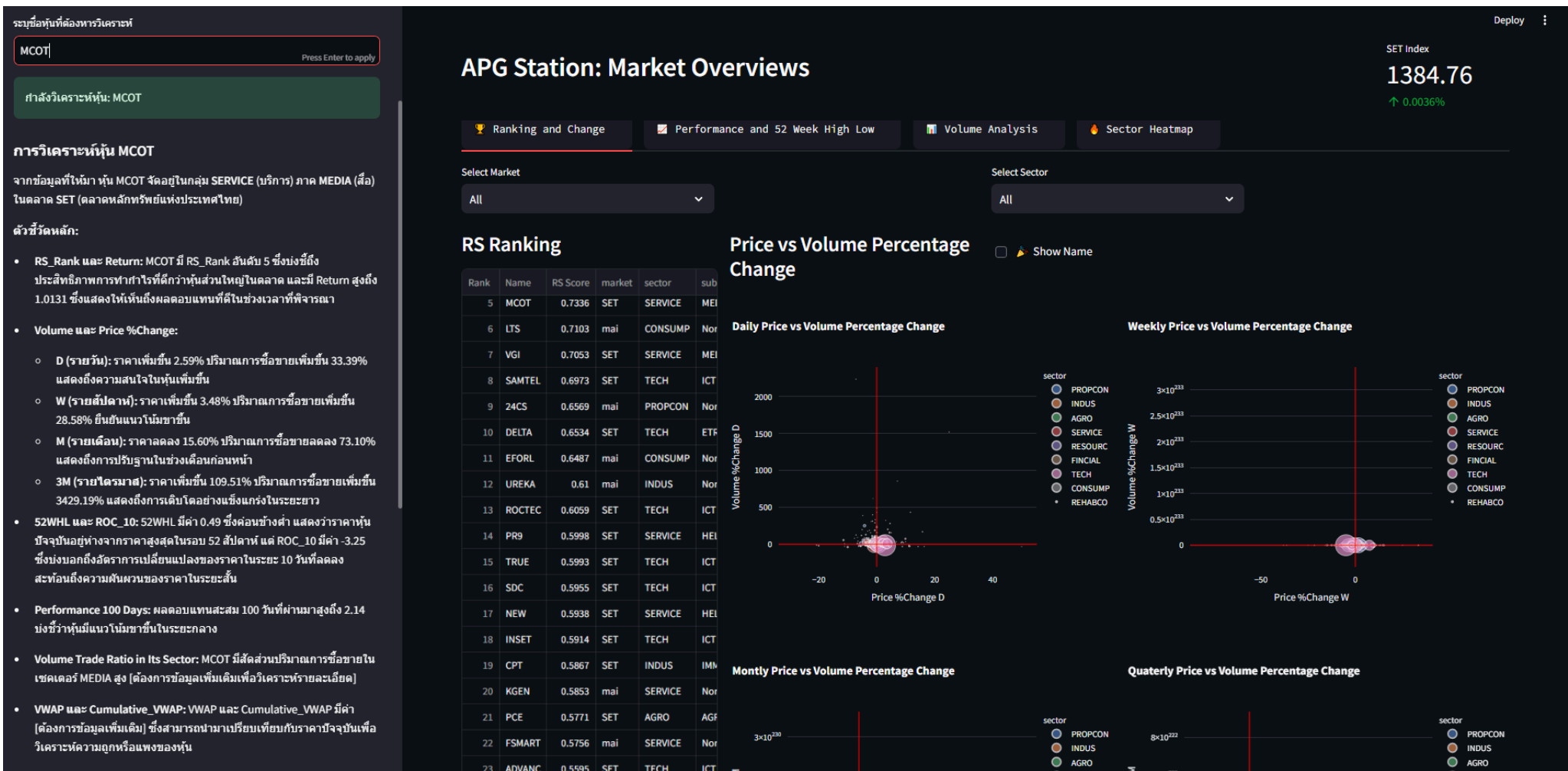
### Portfolio Performance for ADVANC

This visualization tracks portfolio performance for ADVANC with an initial cash of 10,000 THB. It highlights stock price movements, buy/sell actions, profit/loss trades, and cumulative returns compared to the benchmark.

### AI ADD-ON



This is a heatmap showing the historical returns of stocks. You can select different stocks to see which periods show good performance or are worth buying, based on average returns for each month and year. It makes it easier to analyze investment trends.



This AI tools that we’ve set prompt, allowing users to simply type the stock name. The system will automatically summarize insights from the existing market overview, providing a quick and easy understanding of the stock’s status and trends.