NFU Progress Report

2023/06/10

NFUIM

Outline

- Current progress (Finished)
- Method
- Results
- Explanation

Current progress (Finished)

- 1. Check if the US stock market is open (considering EST and EDT).
- 2. Calculate the threshold of volume.
- 3. Identify the days that meet the criteria for trading.
- 4. Calculate the profit ratio.

Method

1. Preprocess the data using the information provided by CCU.

- 2. Address the issue of time zones.
- 3. Calculate the threshold of volume using n_day (90) as a parameter. Determine which days meet the condition of n_percentile (95).
- 4. Within n_time (From market open to market close) after the market opens, evaluate the condition:

 You can configure this parameter (ex: 15 min), but it is not currently set.

Formula = "[now_price > open_price * (1 + n%)] or [now_price < open_price * (1 - n%)]"

If the condition is met, initiate a reverse operation and conclude the trade at the market close (day trading).

Our Parameter:

n_day = 90 n_percentile = 0.95 n_time = 0h 0m 0s n% = 5

Results

Data

Directory description:

all = Data merging and processing

bk = Backup records from the past (not important)

log = Trading logs, recording the dates of each stock transaction (.txt)

trading = Records of all stock transactions (.csv)

trading-strategy = Records of stocks with trading activity (.csv)

	名稱 ↑ ∨		修改日期 ~	檔案大小 ~	共用
-8	500_N_1		2 天前	825 MB	SP 己共用
8	500_N_2 C	CU's data	2 天前	857 MB	응 己共用
8	500_N_3		2 天前	821 MB	SB 己共用
8	500_N_4		2 天前	778 MB	응 근共用
8	500_N_5		2 天前	797 MB	89 己共用
8	500_N_6		2 天前	841 MB	응 己共用
8	500_N_7		2 天前	665 MB	SP 已共用
-8	all	Our results	2 天前	10.4 GB	응 己共用
8	bk		2 天前	8.30 GB	😂 己共用
8	log		2 天前	18.2 KB	응 己共用
8	trading		2 天前	419 MB	응 己共用
8	trading-stratergy		2 天前	99.2 MB	SB 已共用

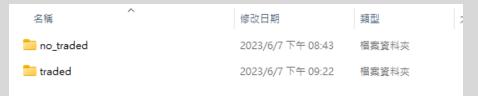
Explanation - log

In the "log" folder, you can find two directories named "no_traded" and "traded"[1]. The "no_traded" directory contains stocks that were not traded, while the "traded" directory contains stocks that were traded.

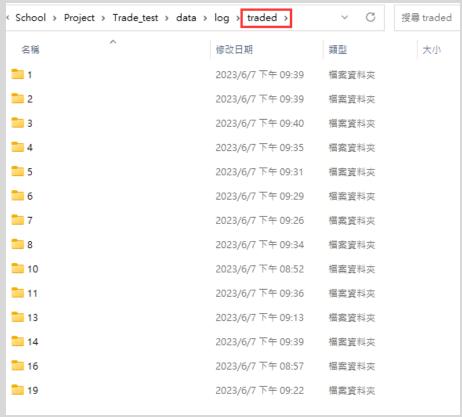
Inside the "traded" folder, the stocks are organized based on the number of trades[2]. For example, if a stock has a total of 8 trades, it will be stored in the "8" directory[3].



[1]



[2]



Explanation - log

When you open the document, it will appear as shown in the image on the right.

The document will display the number of trades, the number of profitable trades, the trading dates, and the returns.



MRNA.US.txt

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檔案

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Trade Count: 19 Total Win Count: 10

Trading Date:

1: 2020-07-15, -0.0342

2: 2020-07-20, 0.0101

3: 2020-08-12, -0.0220

4: 2020-11-16, 0.0308

5: 2020-11-30, -0.0076

6: 2020-12-01, -0.1614

7: 2021-01-29, 0.0627

8: 2021-05-06, -0.0325

9: 2021-07-19, -0.0488

10: 2021-07-20, 0.0894

11: 2021-07-21, -0.0220

12: 2021-08-05, 0.0355

13: 2021-08-10, -0.0076

14: 2021-08-12, 0.0380

15: 2021-10-04, -0.0036

16: 2021-11-04, 0.0101

17: 2021-11-05, 0.0416

18: 2021-11-26, 0.0144

19: 2021-11-29, 0.0491

Explanation - trading

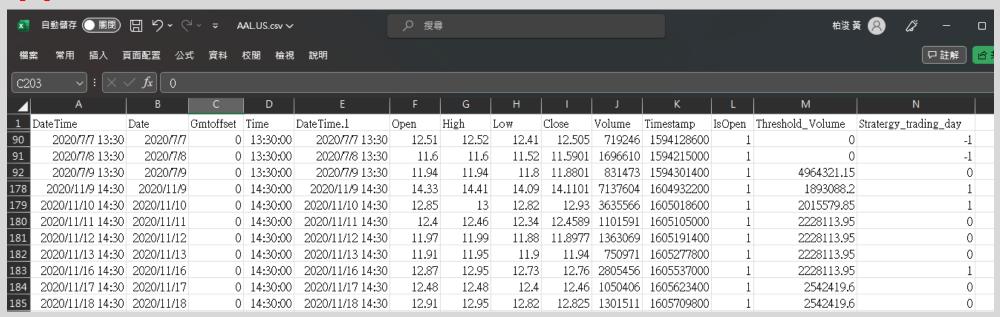
[1]

The "trading" folder contains the calculation process for all stocks[1]. If the file name is "stock name" (ex: AAL.US.csv), it represents the calculation for the first condition[2]. If the file name is "stock name-trading-strategy" (ex: AAL.US-trading-strategy.csv), it represents the simulation process for trading[3].

[+]										
<	School > Project > Trade_test > data >	trading	~ C	搜尋 trading						
	名稱	修改日期	類型	大小						
	A.US.csv	2023/6/7 下午 08:43	Microsoft Exce	el 66 KB						
	A.US-trading-stratergy.csv	2023/6/7 下午 08:43	Microsoft Exce	l 681 KB						
	AAL.US.csv	2023/6/7 下午 08:44	Microsoft Exce	el 65 KB						
	AAL.US-trading-stratergy.csv	2023/6/7 下午 08:44	Microsoft Excel 882 k							
	AAP.US.csv	2023/6/7 下午 08:44	Microsoft Exce	l 67 KB						

Explanation - trading

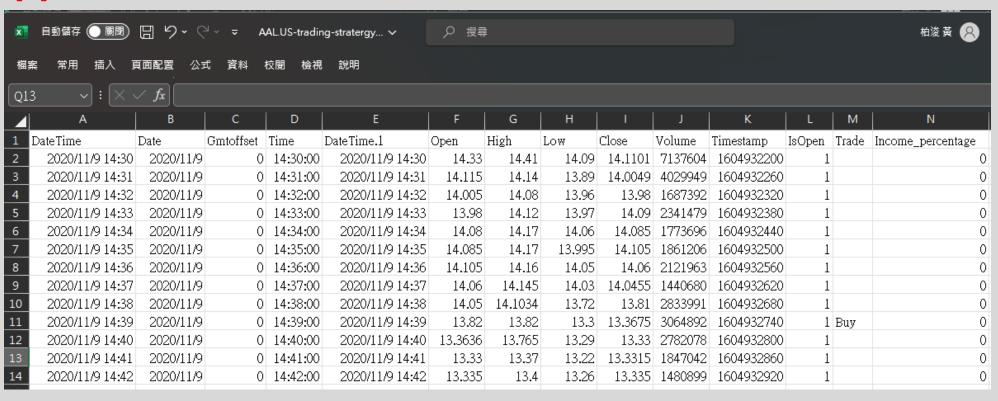
[2]



Condition Calculation Process

Explanation - trading

[3]



Trading Record

Explanation - trading-strategy

The "trading-strategy" folder stores all the stocks that have been traded and records the trading process.

Similar to the "log/traded" folder, it is categorized based on the number of trades.

