

## Timeline

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- Bithumb BTC Timeline



- Bithumb EOS Timeline



- Upbit BTC

## Bithumb - Bitcoin 2018 거래량

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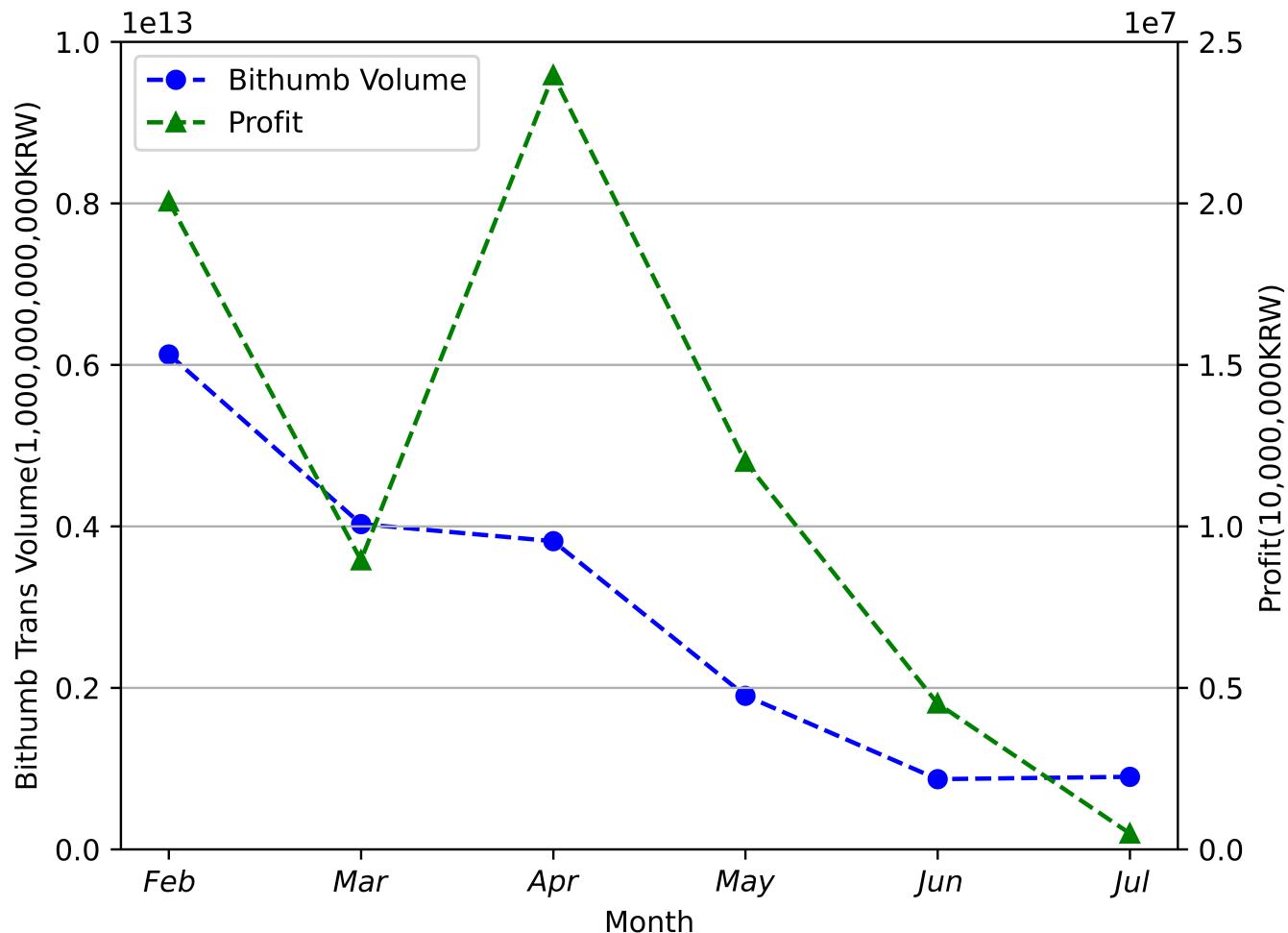
### Bithumb 2018

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Total Trans	823	18,367	33,149	27,790	23,295	8,779	9,467	4,016
Profit(KRW)	-	20,057,445	8,951,034	23,967,448	11,999,306	4,513,842	494,149	-
Sell(KRW)	10,259,898	39,817,915,902	60,669,715,599	45,635,560,225	36,634,276,516	12,917,194,088	11,622,590,281	5,982,790,055
Buy(KRW)	7,375,346	39,797,858,457	60,657,579,097	45,609,884,185	36,622,277,210	12,912,680,246	11,622,096,132	5,966,645,458
Total Volume	17,635,244	76,615,774,359	121,327,294,696	91,245,444,410	73,256,553,726	25,829,874,334	23,244,686,413	11,979,435,513

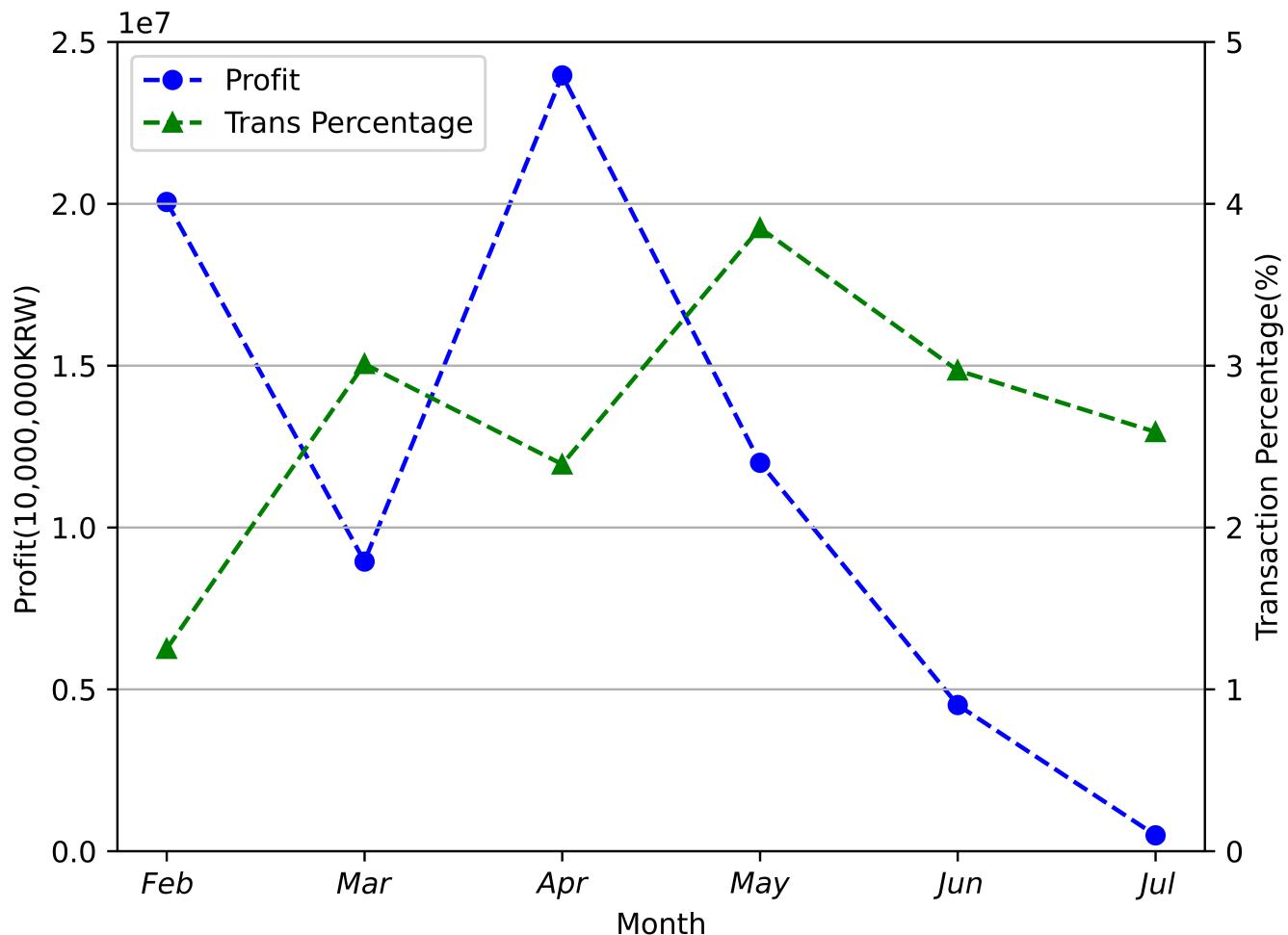
### Bithumb-Bitcoin

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Total trans(BTC)	451.87K	518.51K	524.38K	377.09K	230.11K	123.44K	102.80K	238.1
Total trans	5,173,911,500,000	6,129,825,220,000	4,028,287,160,000	3,816,150,800,000	1,903,469,920,000	869,387,920,000	897,958,000,000	1,874
Young/Total	0.00034%	1.25%	3.01%	2.39%	3.85%	2.97%	2.59%	0.64%

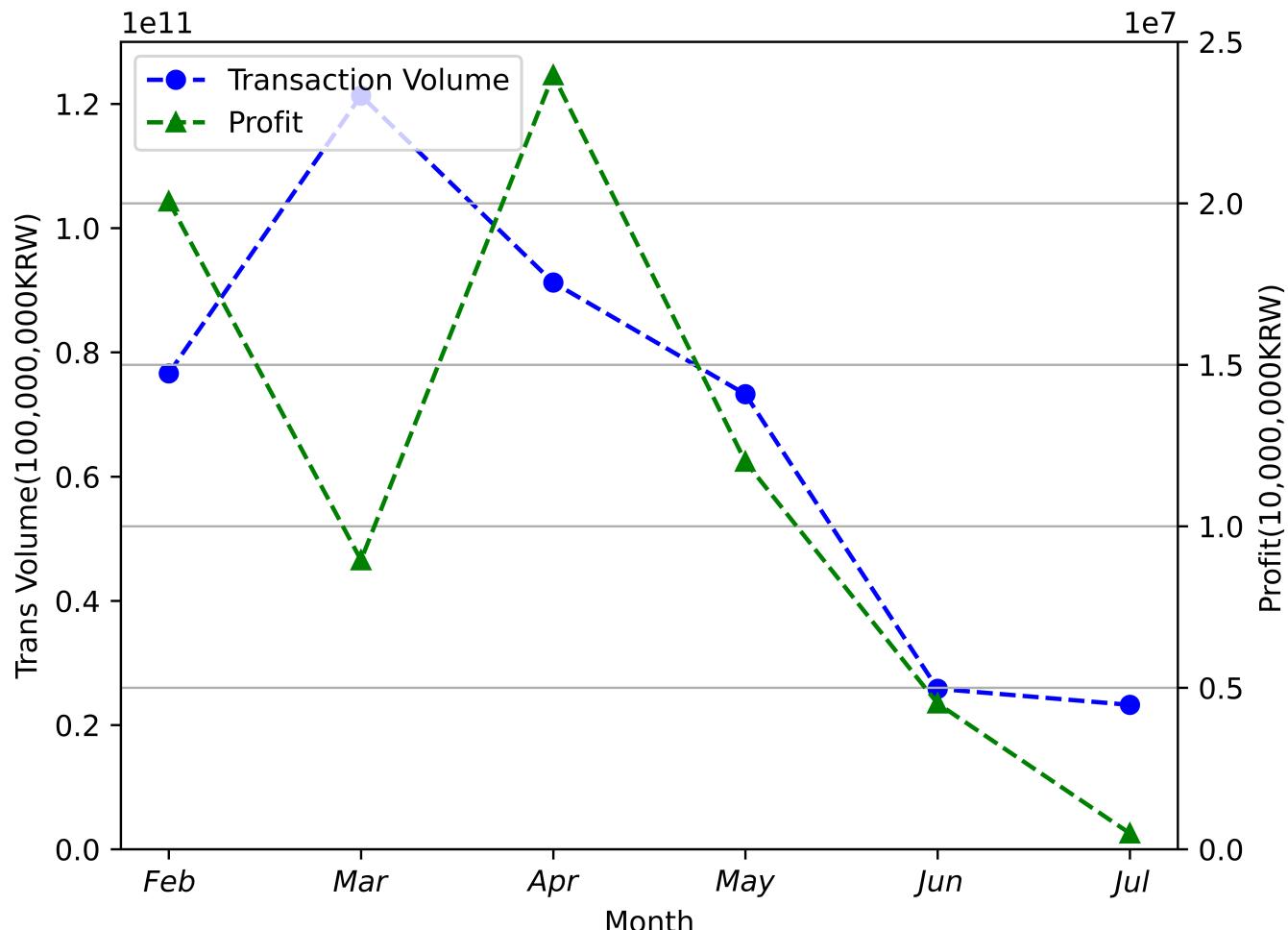
그래프



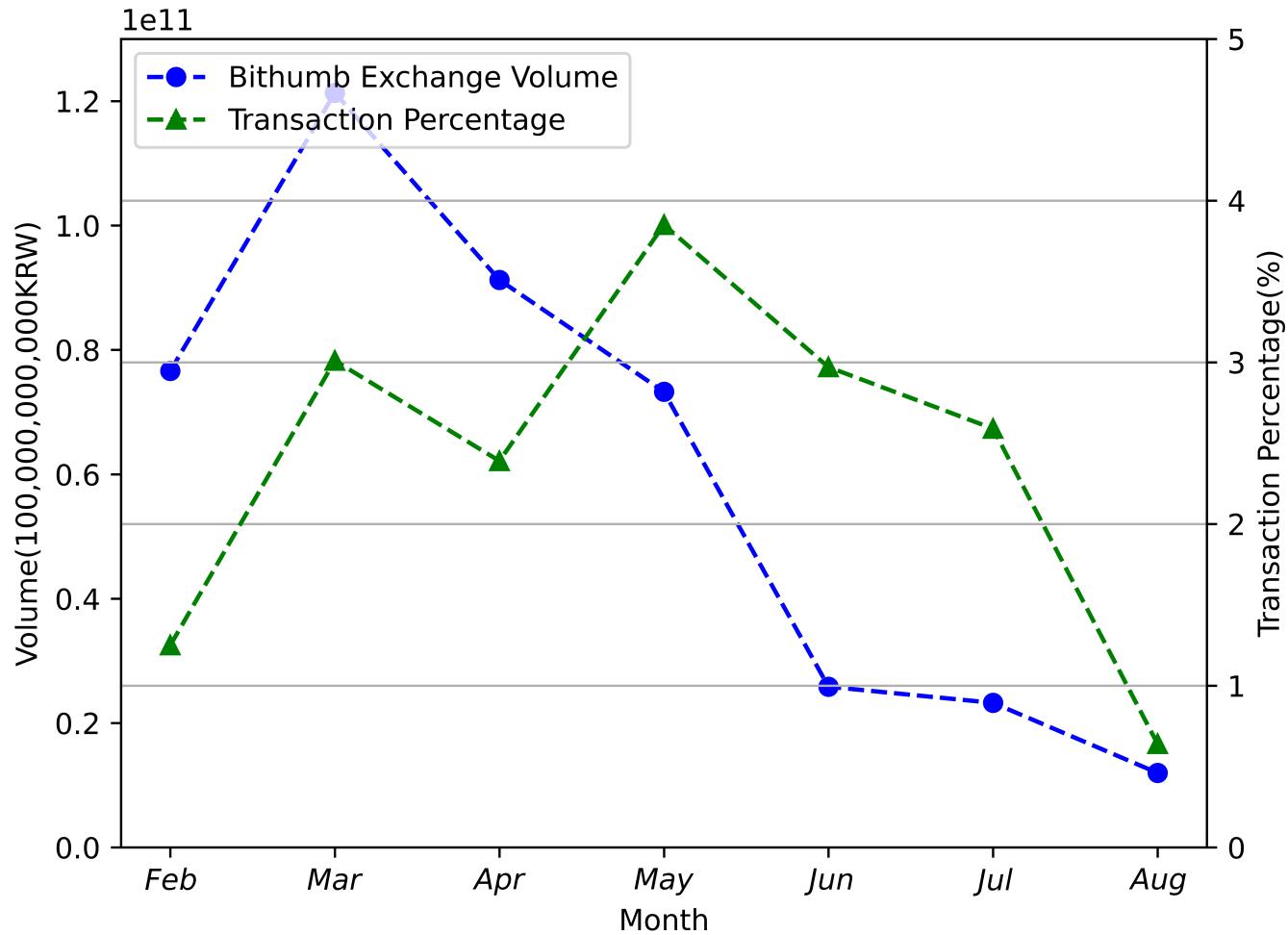
- 파랑색 : Bithumb 거래소 bitcoin 거래량(KRW)
- 초록색 : 수익(KRW)



- 파랑색 : 수익(KRW)
- 초록색 : 교수님 거래량(KRW) / Bithumb 거래소 bitcoin 거래량(KRW)



- 초록색 : 수익(KRW)
- 파랑색 : 교수님 거래량(KRW)



- 파랑색 : Bithumb 거래소 거래량(KRW)
- 초록색 : 교수님 거래량(KRW) / Bithumb 거래소 bitcoin 거래량(KRW)

## Upbit Bitcoin 2018s 거래량

출처 : <https://kr.investing.com/crypto/bitcoin/btc-krw-historical-data?cid=1064952>

### Upbit-Bitcoin 계정 거래량

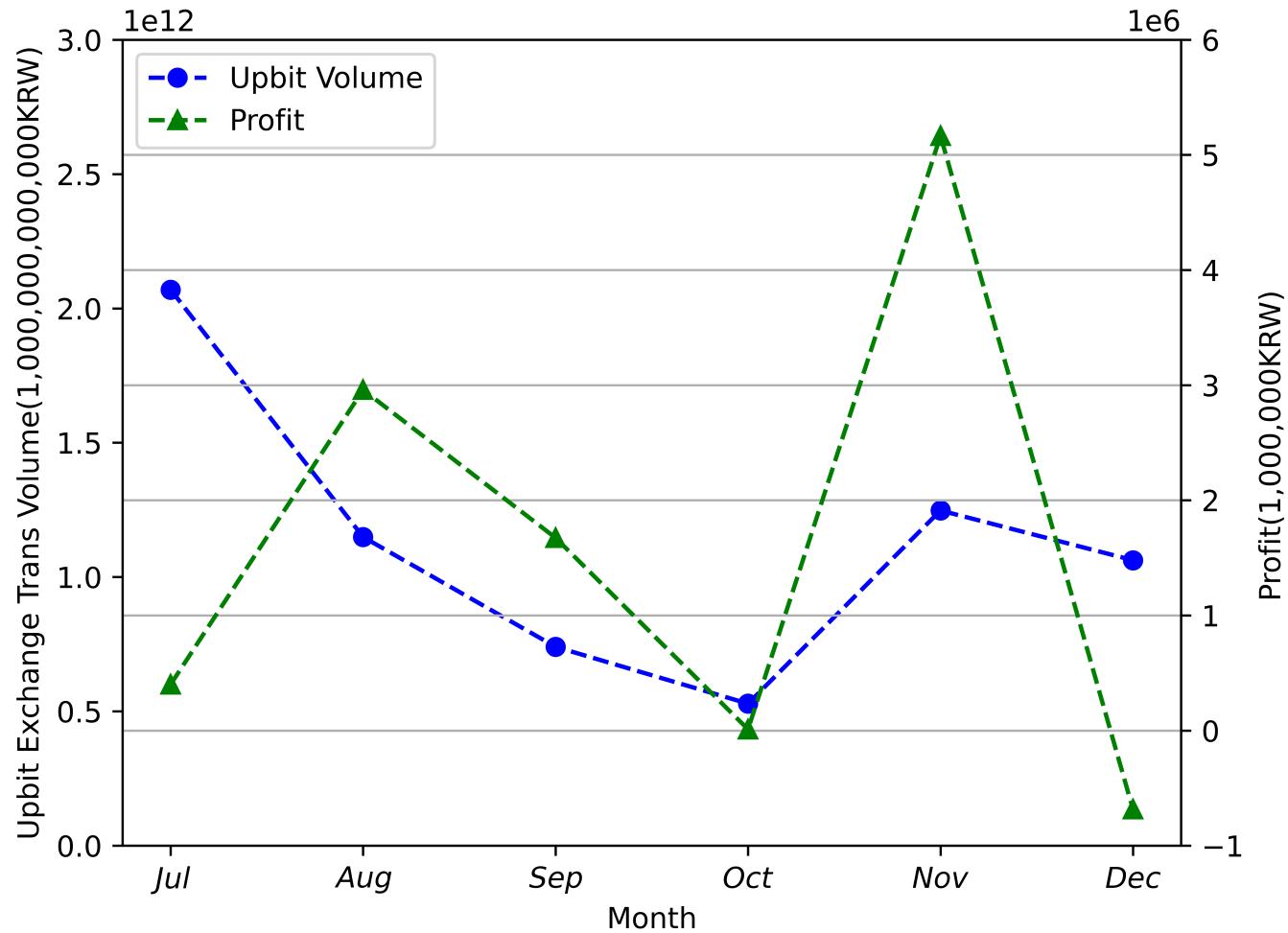
Month	Jul	Aug	Sep	Oct	Nov	Dec
Total Trans	"19,145"	"12,215"	"8,658"	"5,054"	"3,985"	"3,672"
Profit(KRW)	"400,090"	"2,958,947"	"1,673,592"	"10,510"	"5,164,420"	"-683,606"
Sell Volume(KRW)	"13,243,152,231"	"10,694,677,228"	"6,606,541,721"	"2,966,715,367"	"2,502,715,367"	"1,849,349,267"
Buy Volume(KRW)	"13,249,752,210"	"10,680,392,607"	"6,575,624,895"	"2,980,863,347"	"2,488,491,381"	"1,850,032,873"
Total Volume(KRW)	"26,492,904,441"	"21,375,069,835"	"13,182,166,616"	"5,947,578,714"	"4,991,206,748"	"3,699,382,140"

### Upbit-Bitcoin 거래소 거래량

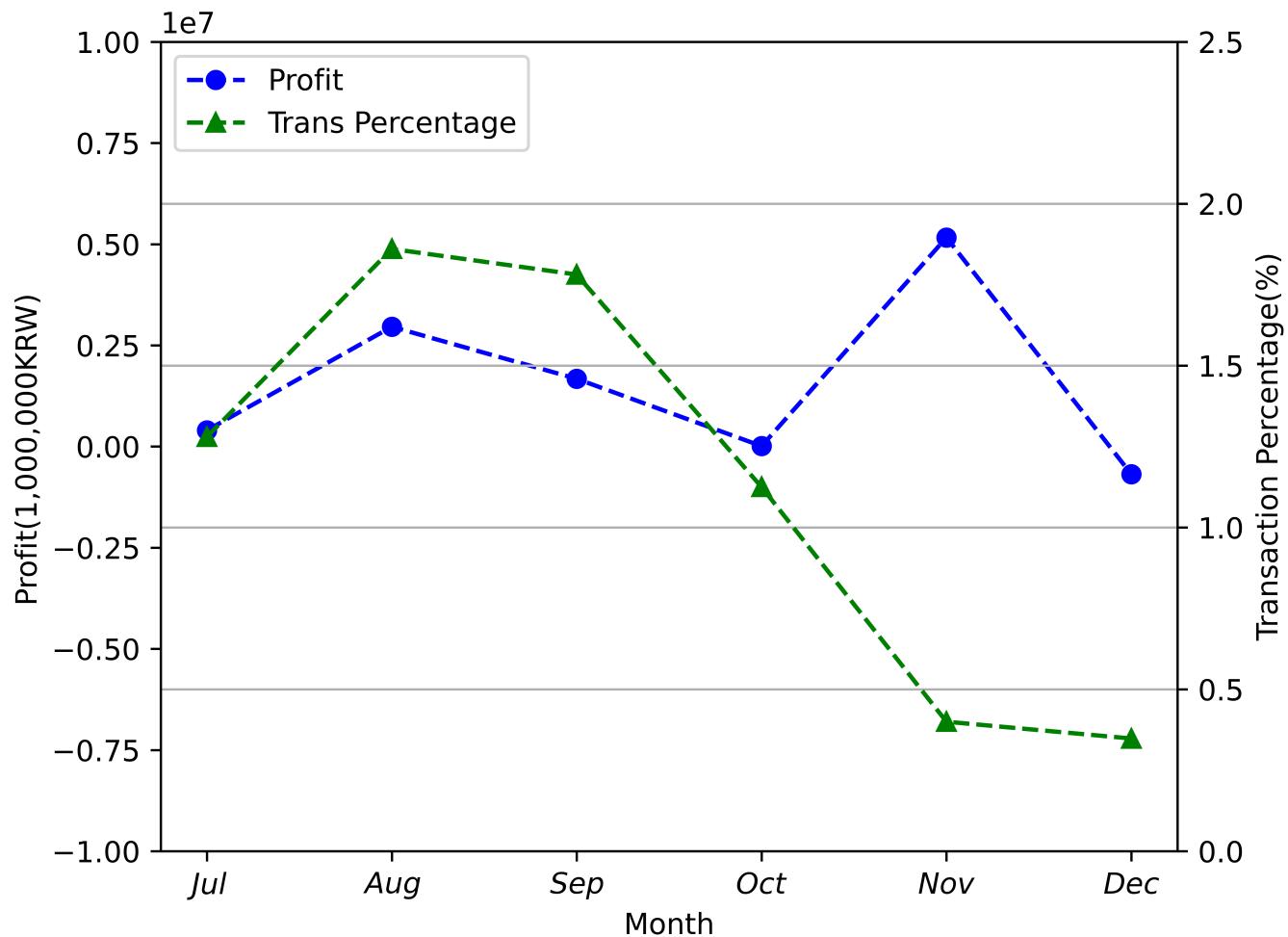
Month	Jul	Aug	Sep	Oct	Nov	Dec
Total trans(BTC)	"258,193"	"150,040"	"99,150"	"72,193"	"202,720"	"256,130"
Average(KRW)	"8,015,903"	"7,658,355"	"7,464,400"	"7,323,839"	"6,154,700"	"4,148,516"
Closing price(KRW)	"8,807,000"	"7,872,000"	"7,393,000"	"7,162,000"	"4,567,000"	"4,201,000"
Total trans(KRW)	"2,069,650,043,279"	"1,149,059,584,200"	"740,095,260,000"	"528,729,908,927"	"1,247,680,784,000"	"1,062,559,403,080"
Young/Total	1.280066866	1.860222927	1.781144581	1.124880324	0.400038761	0.348157678

- Total trans는 Total trans(BTC) \* 월별 평균 가격으로 계산.

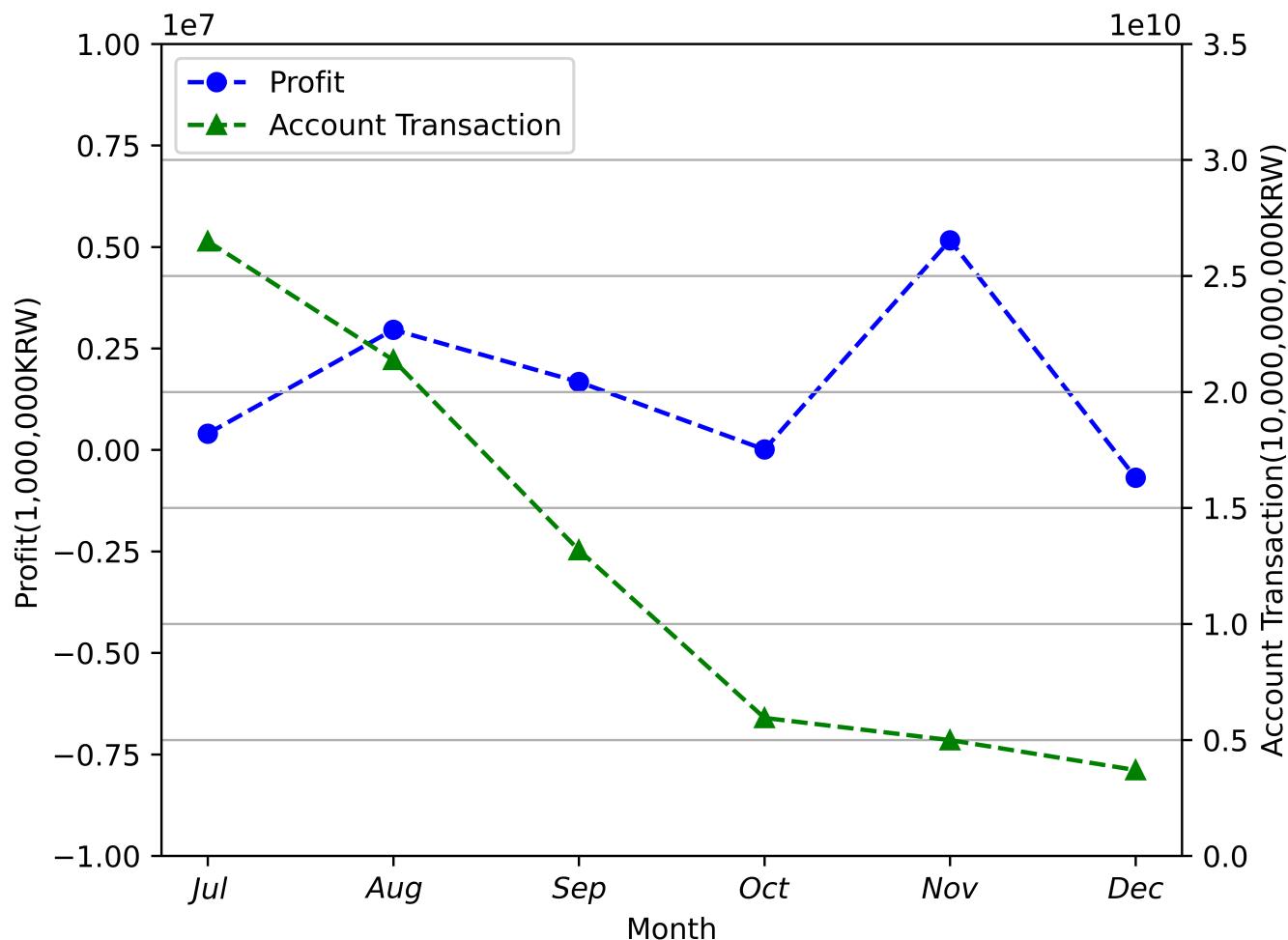
## 그래프



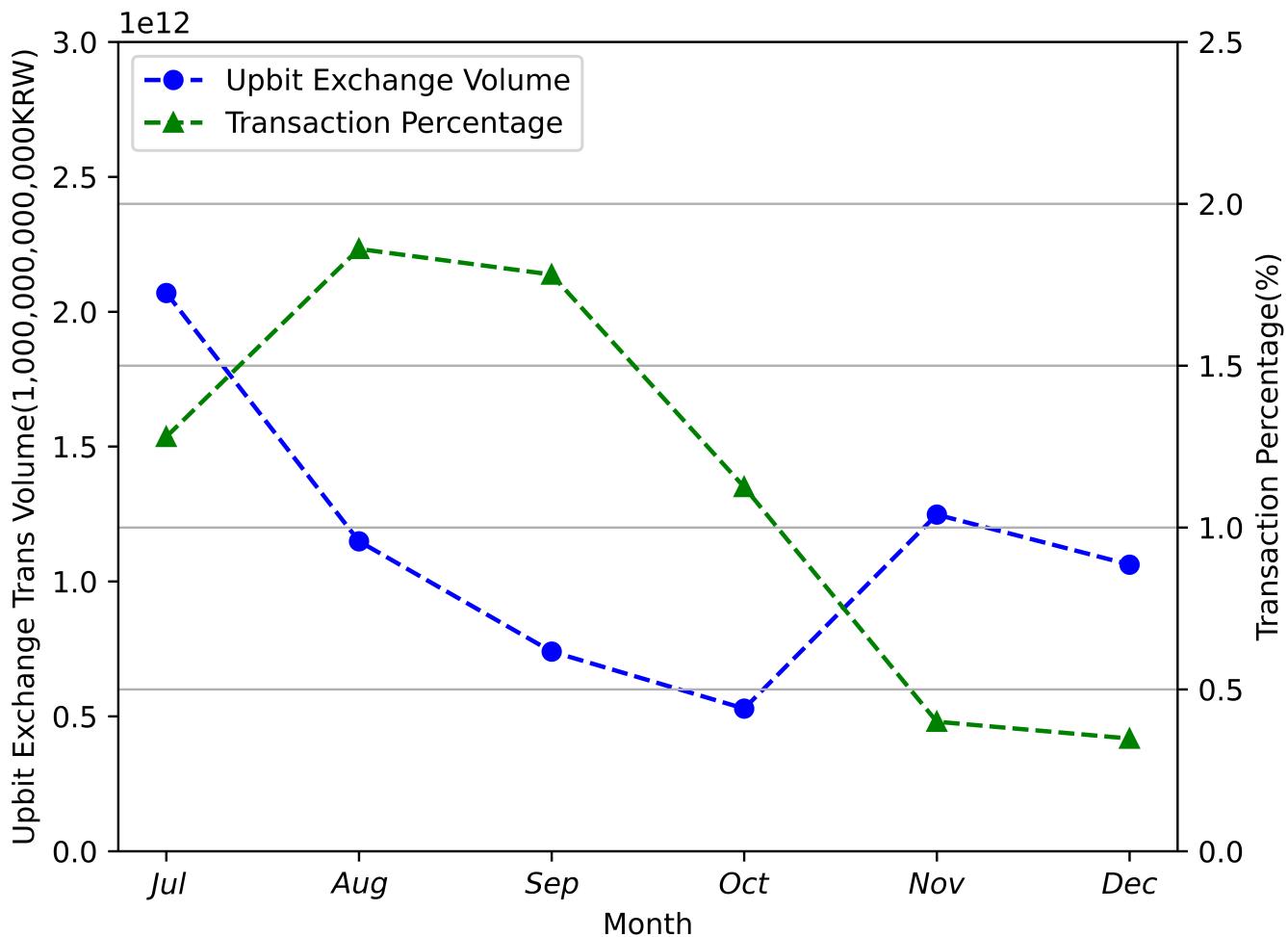
- 파랑색 : Upbit 거래소 bitcoin 거래량(KRW)
- 초록색 : 수익(KRW)



- 파랑색 : 수익(KRW)
- 초록색 : 교수님 거래량(KRW) / Upbit 거래소 bitcoin 거래량(KRW)



- 초록색 : 수익(KRW)
- 파랑색 : 교수님 거래량(KRW)



- 파랑색 : Upbit 거래소 거래량(KRW)
- 초록색 : 교수님 거래량(KRW) / Bithumb 거래소 bitcoin 거래량(KRW)

## Upbit Bitcoin 2019 거래량

출처 : <https://kr.investing.com/crypto/bitcoin/btc-krw-historical-data?cid=1064952>

### Upbit-Bitcoin 계정 거래량

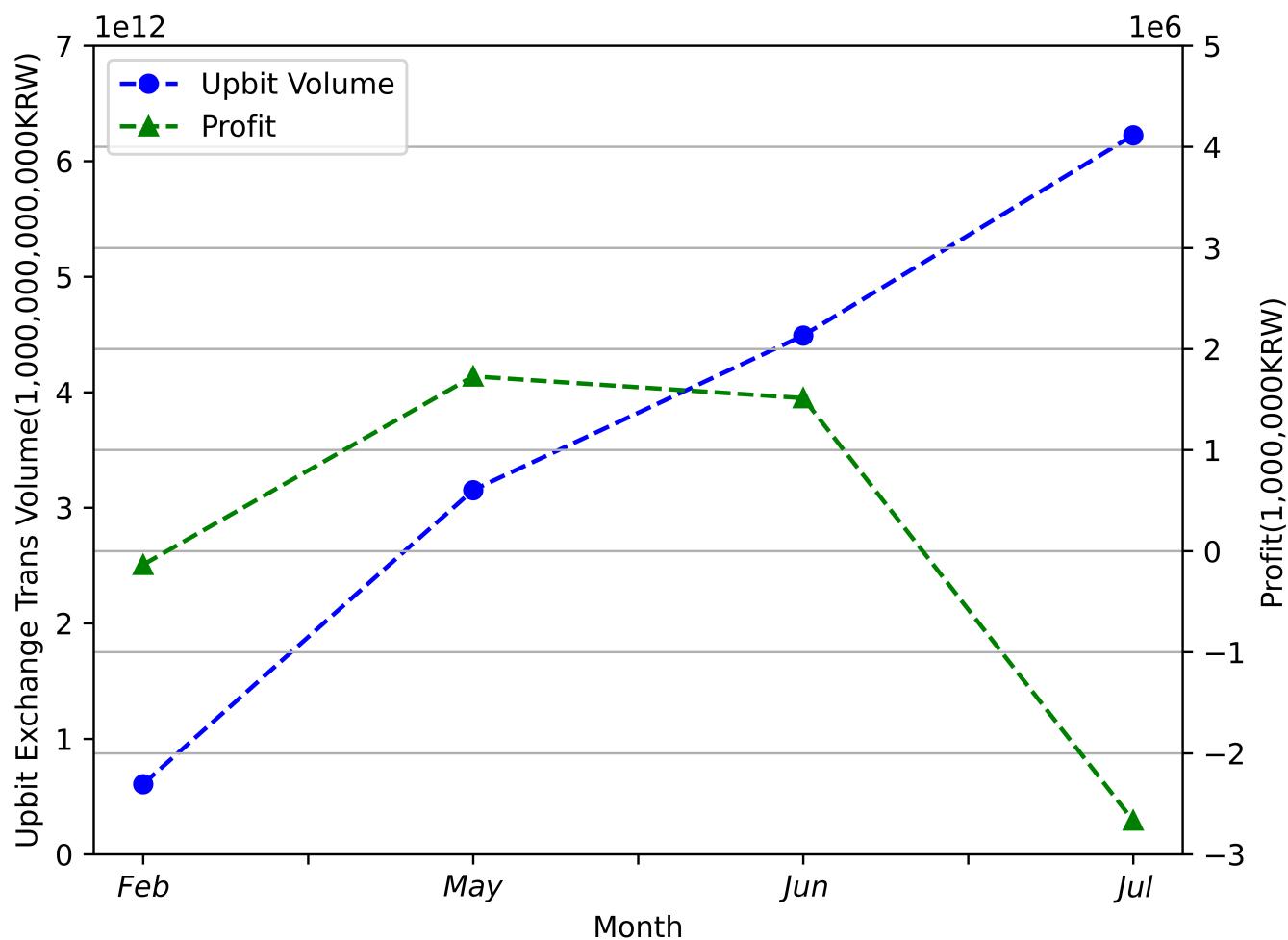
Month	Feb	May	Jun	Jul
Total Trans	"4,579"	"17,622"	"37,907"	"19,652"
Profit(KRW)	"-135,473"	"1,728,400"	"1,513,153"	"-2,666,093"
Sell Volume(KRW)	"2,415,870,049"	"16,416,783,692"	"32,973,943,190"	"25,367,995,572"
Buy Volume(KRW)	"2,416,005,522"	"16,415,055,292"	"32,879,246,140"	"25,364,586,093"
Total Volume(KRW)	"4,831,875,571"	"32,831,838,984"	"65,853,189,330"	"50,732,581,665"

### Upbit-Bitcoin 거래소 거래량

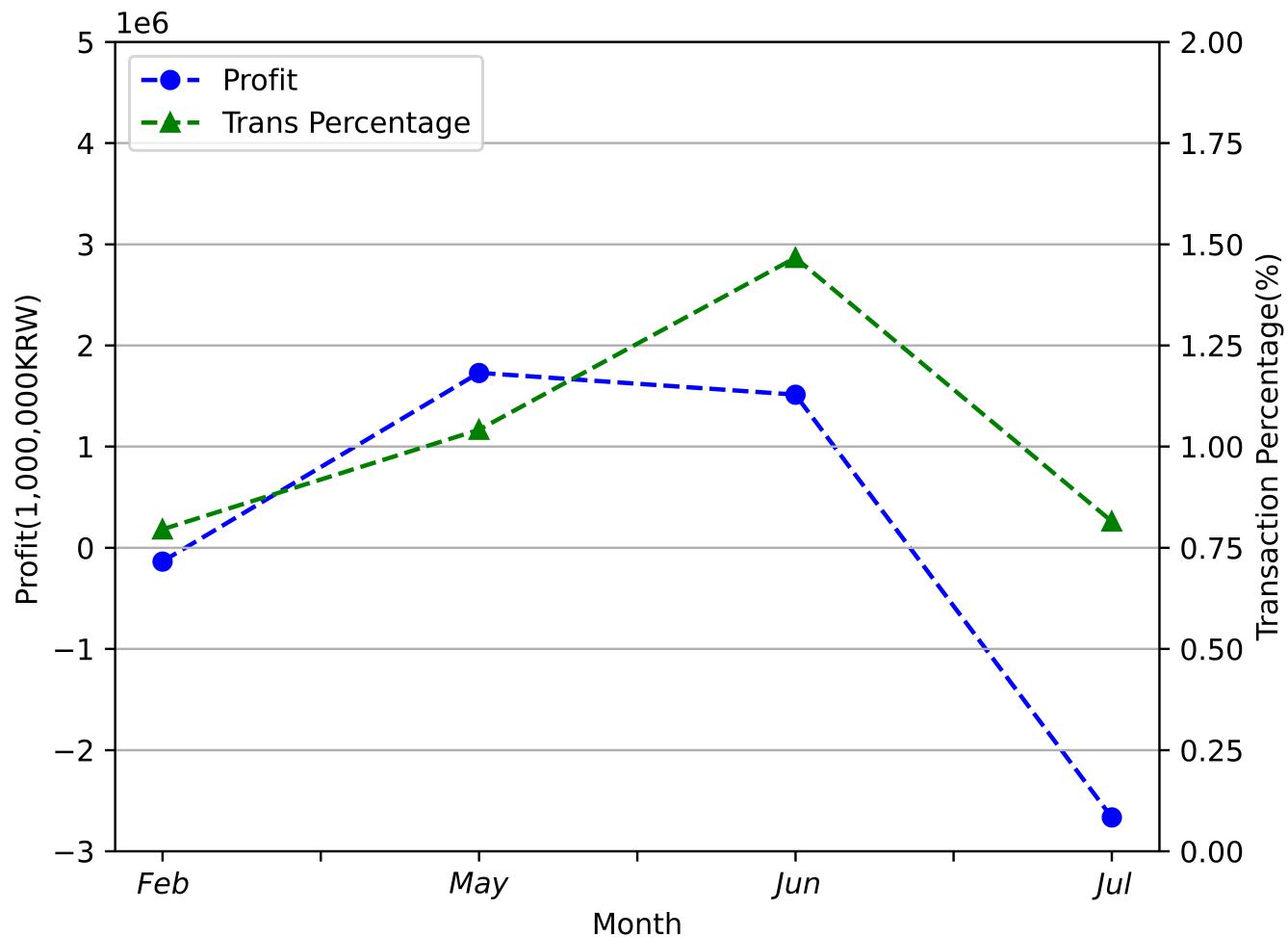
Month	Feb	May	Jun	Jul
Total trans(BTC)	"149,410"	"364,280"	"395,380"	"487,020"
Average(KRW)	"4,066,071"	"8,654,355"	"11,357,900"	"12,781,129"
Closing price(KRW)	"4,241,000"	"10,372,000"	"13,566,000"	"11,949,000"
Total trans(KRW)	"607,511,668,110"	"3,152,608,439,400"	"4,490,686,502,000"	"6,224,665,445,580"
Young/Total	0.795355188	1.041418229	1.466439247	0.815025034

- Total trans는 Total trans(BTC) \* 월별 평균 가격으로 계산.

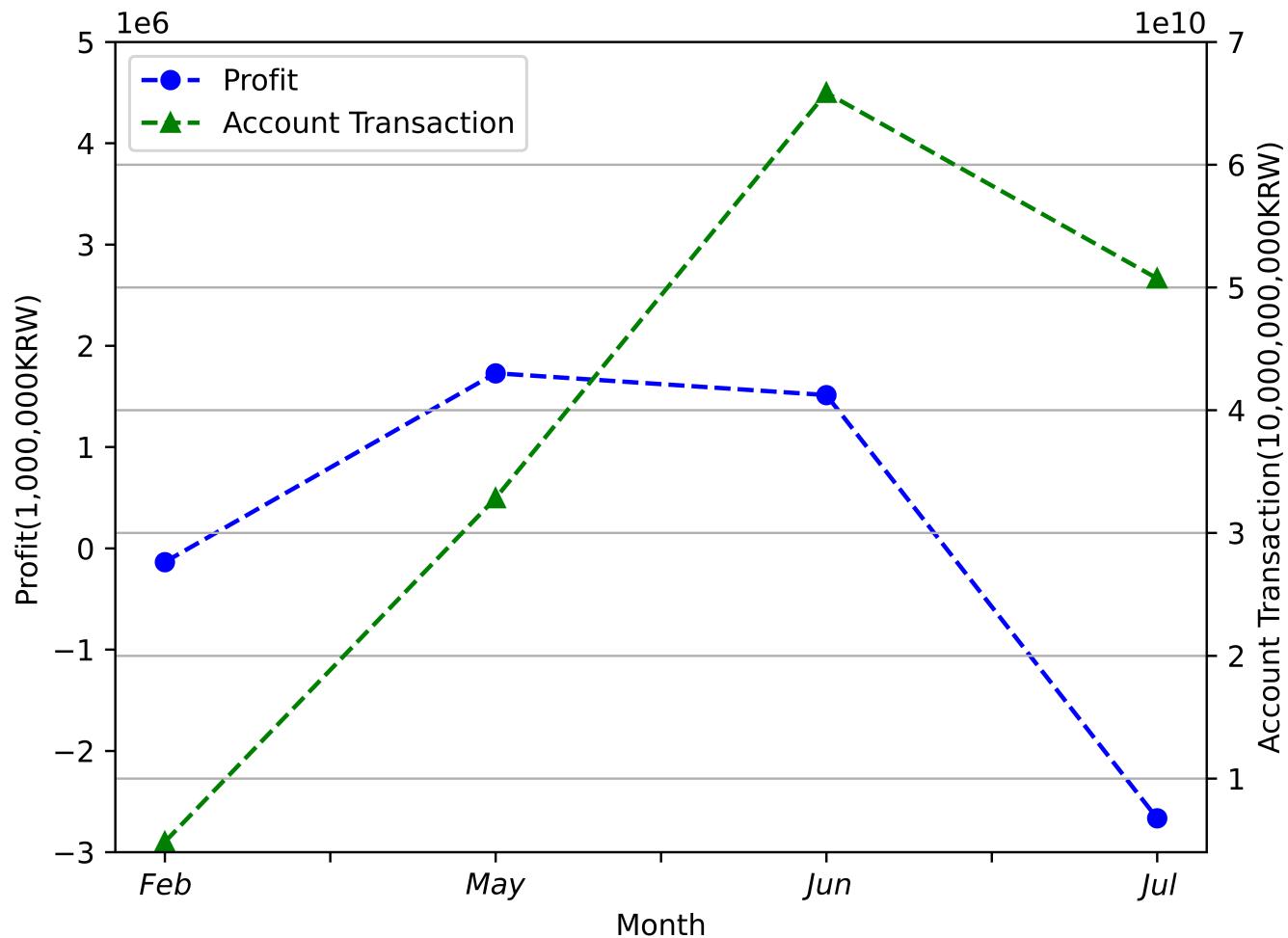
## 그래프



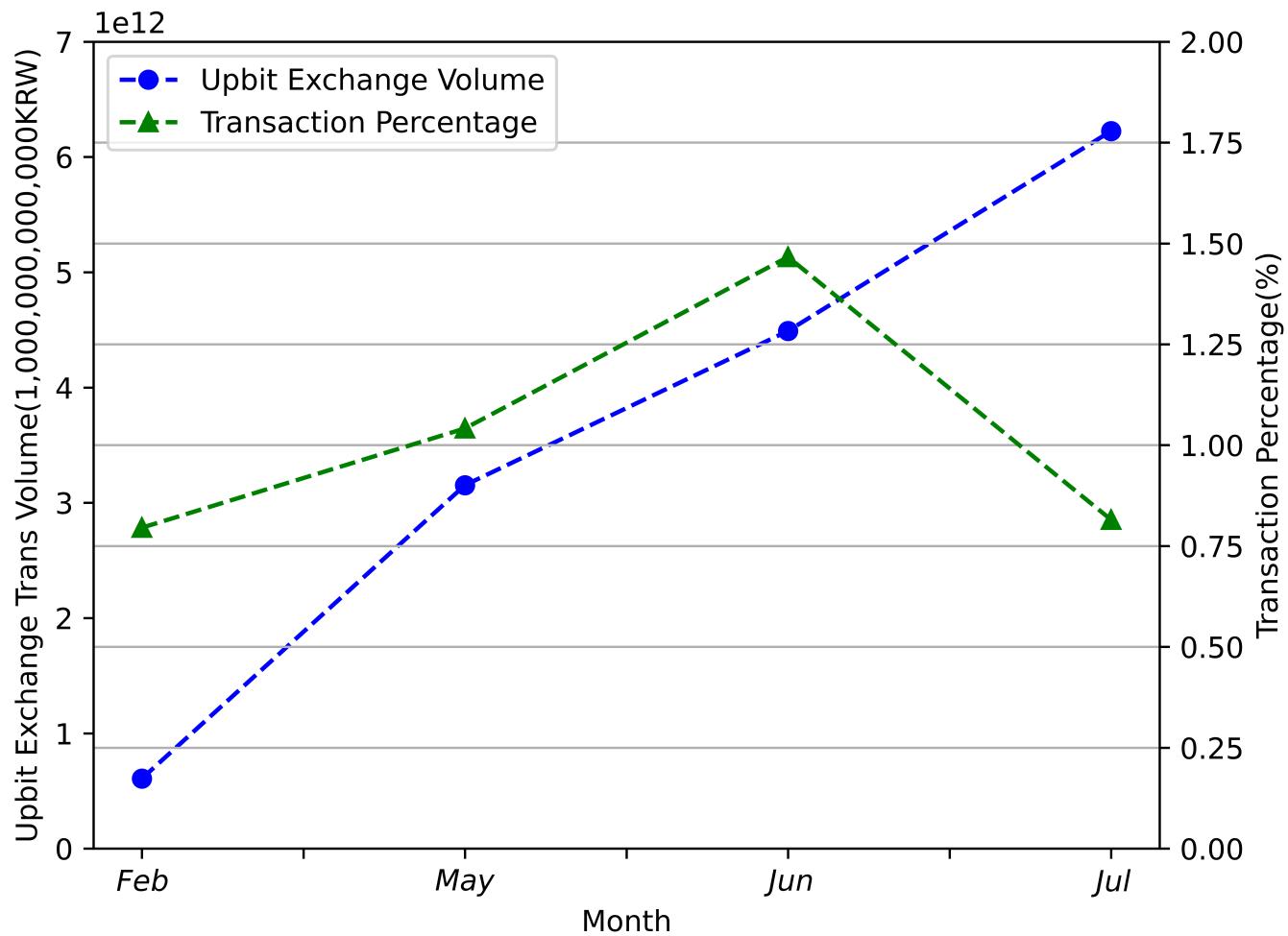
- 파랑색 : Upbit 거래소 bitcoin 거래량(KRW)
- 초록색 : 수익(KRW)



- 파랑색 : 수익(KRW)
- 초록색 : 교수님 거래량(KRW) / Upbit 거래소 bitcoin 거래량(KRW)



- 초록색 : 수익(KRW)
- 파랑색 : 교수님 거래량(KRW)

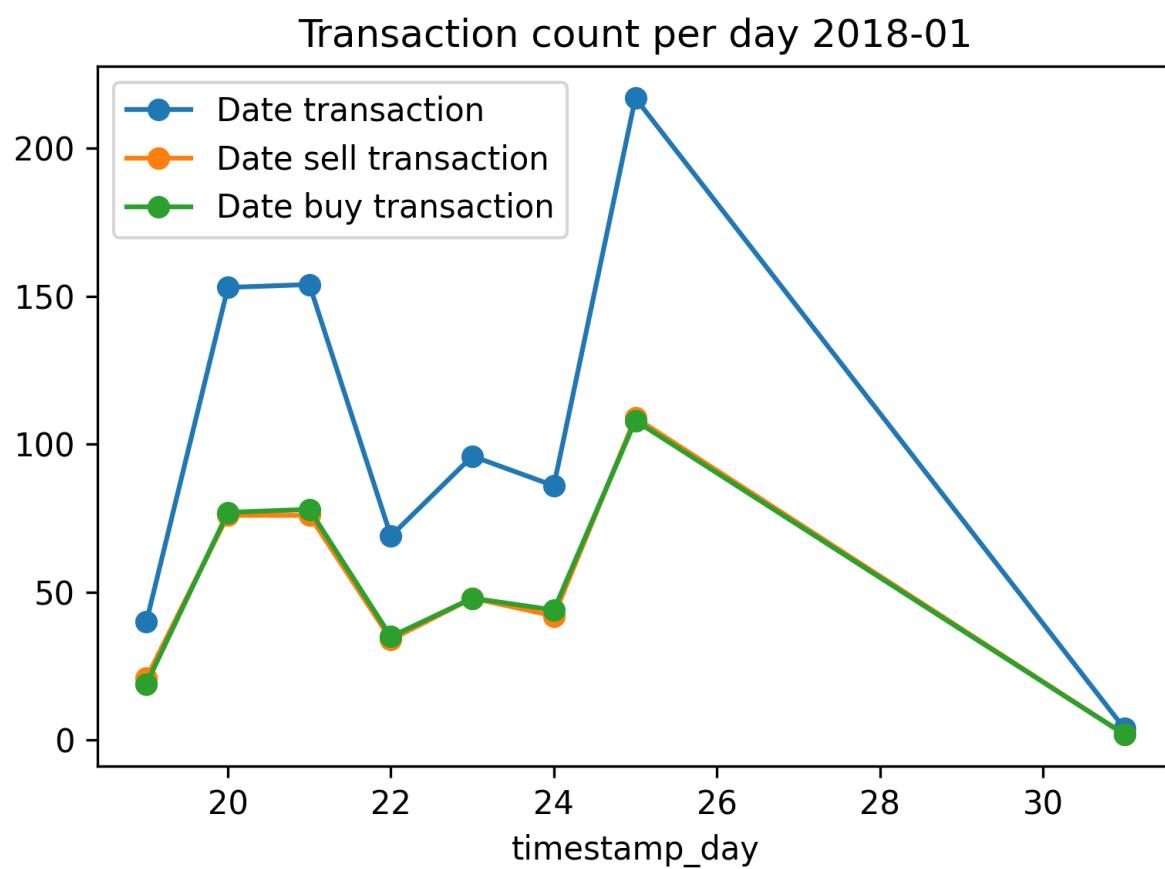
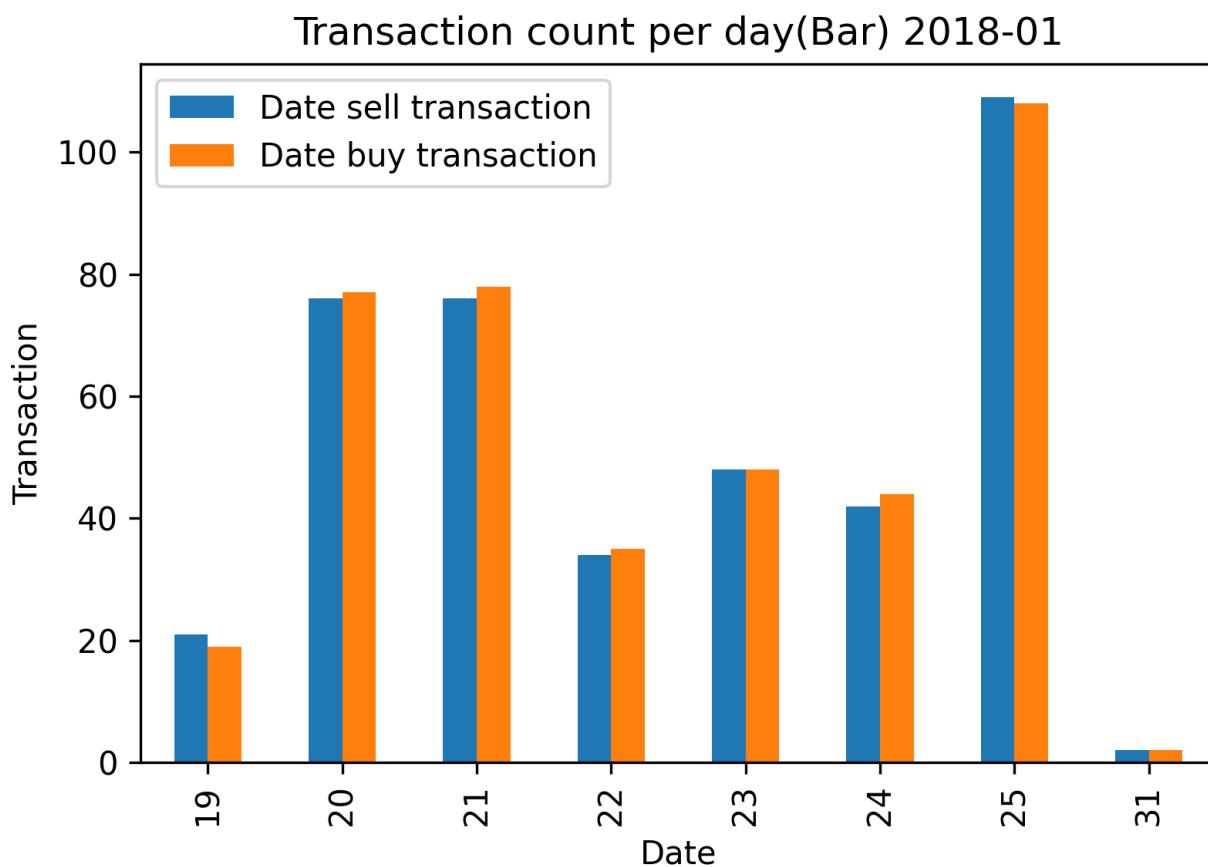


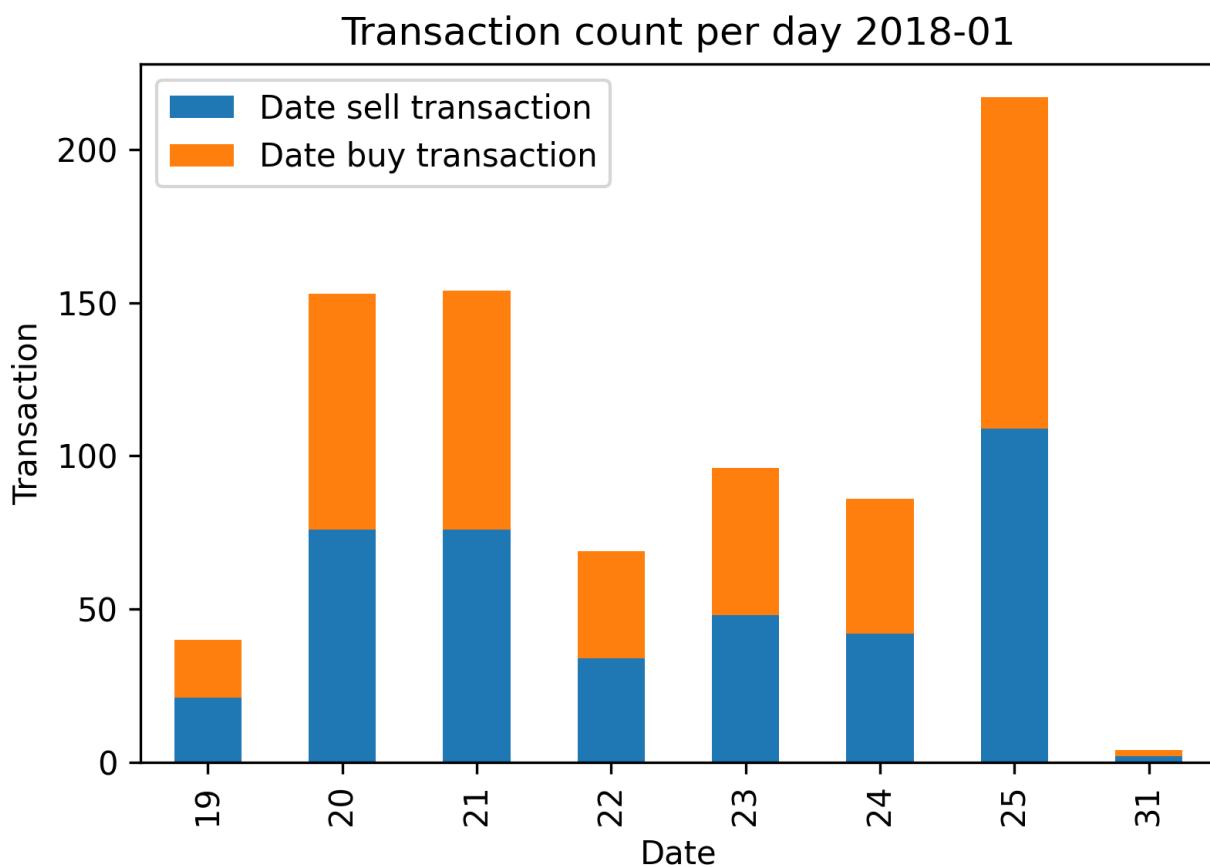
- 파랑색 : Upbit 거래소 거래량(KRW)
- 초록색 : 교수님 거래량(KRW) / Bithumb 거래소 bitcoin 거래량(KRW)

## Bithumb-BTC 2018 일 별 Buy, Sell, Total 거래

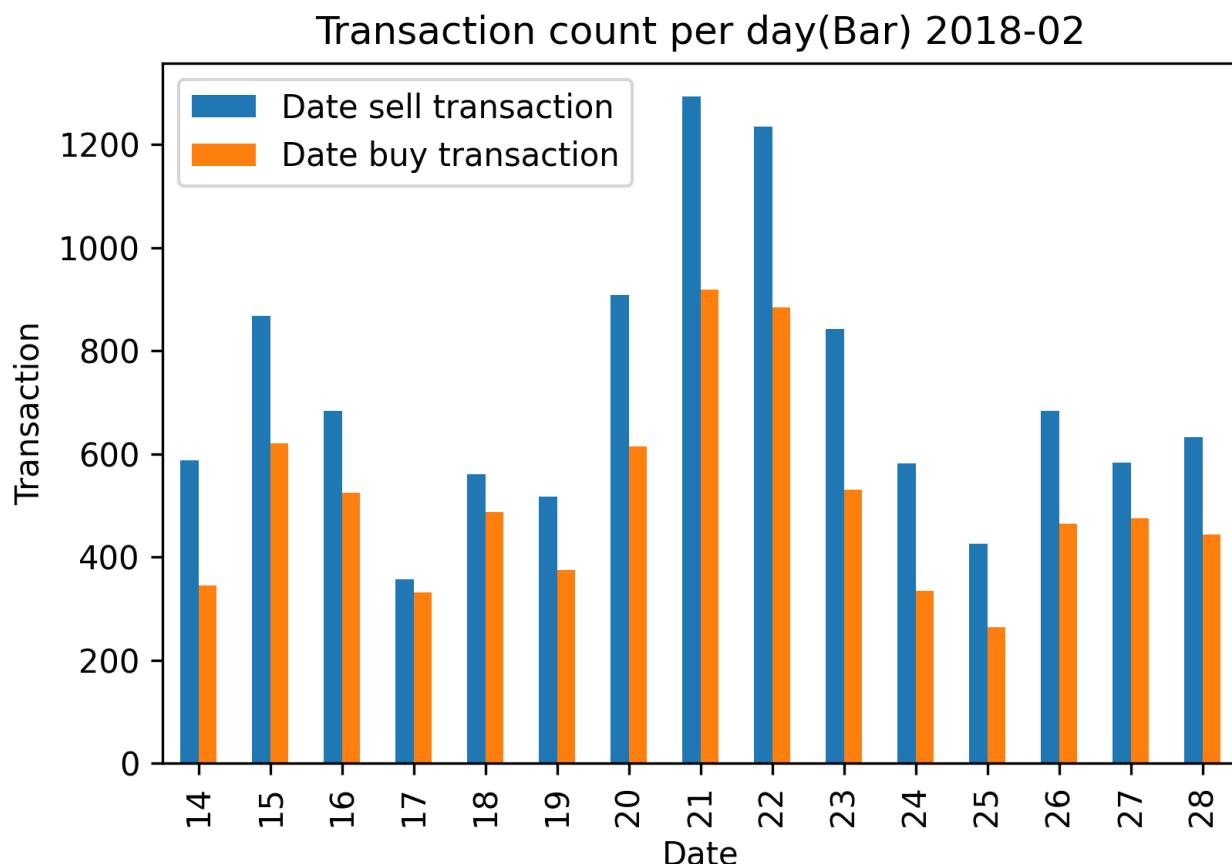
산것, 판것 거래량 예시 (매일 buy 양이 더 많음을 보여줄 수 있는)

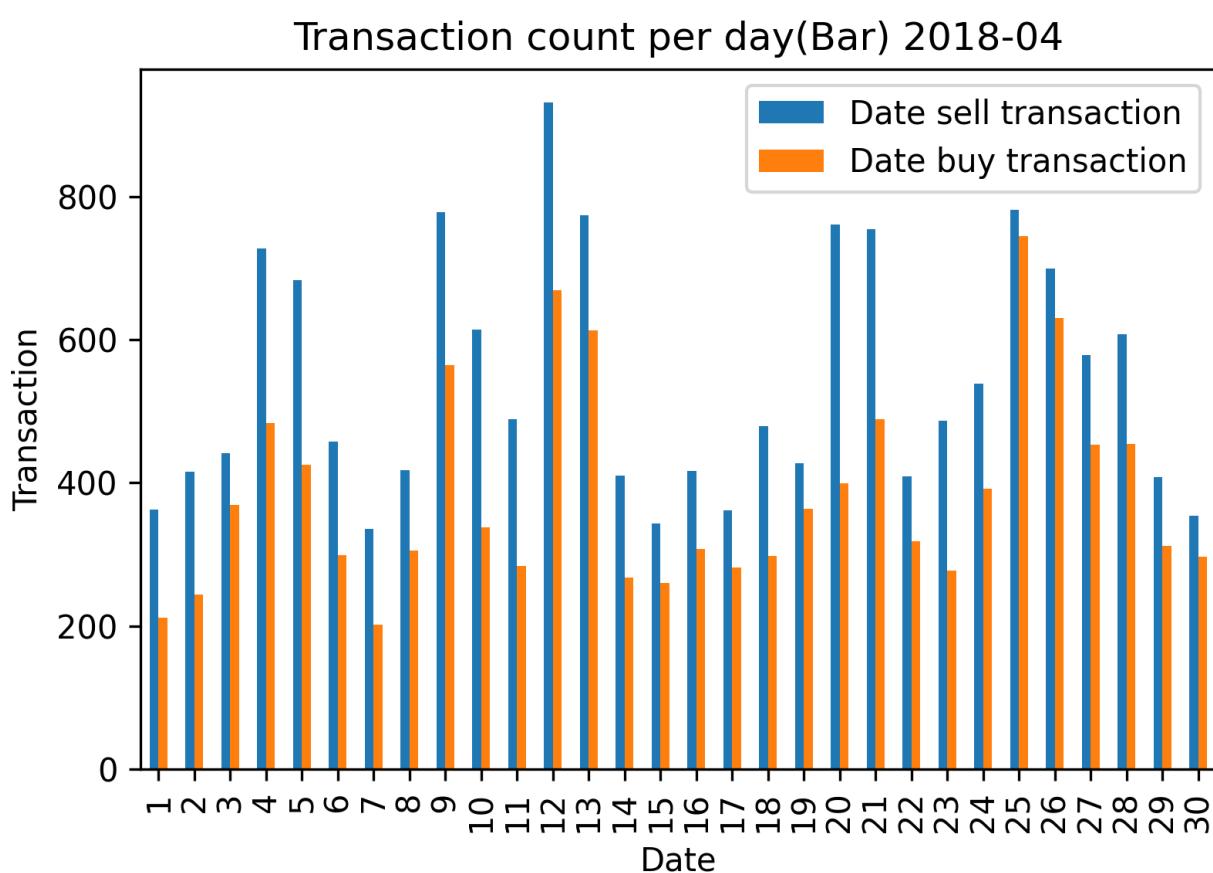
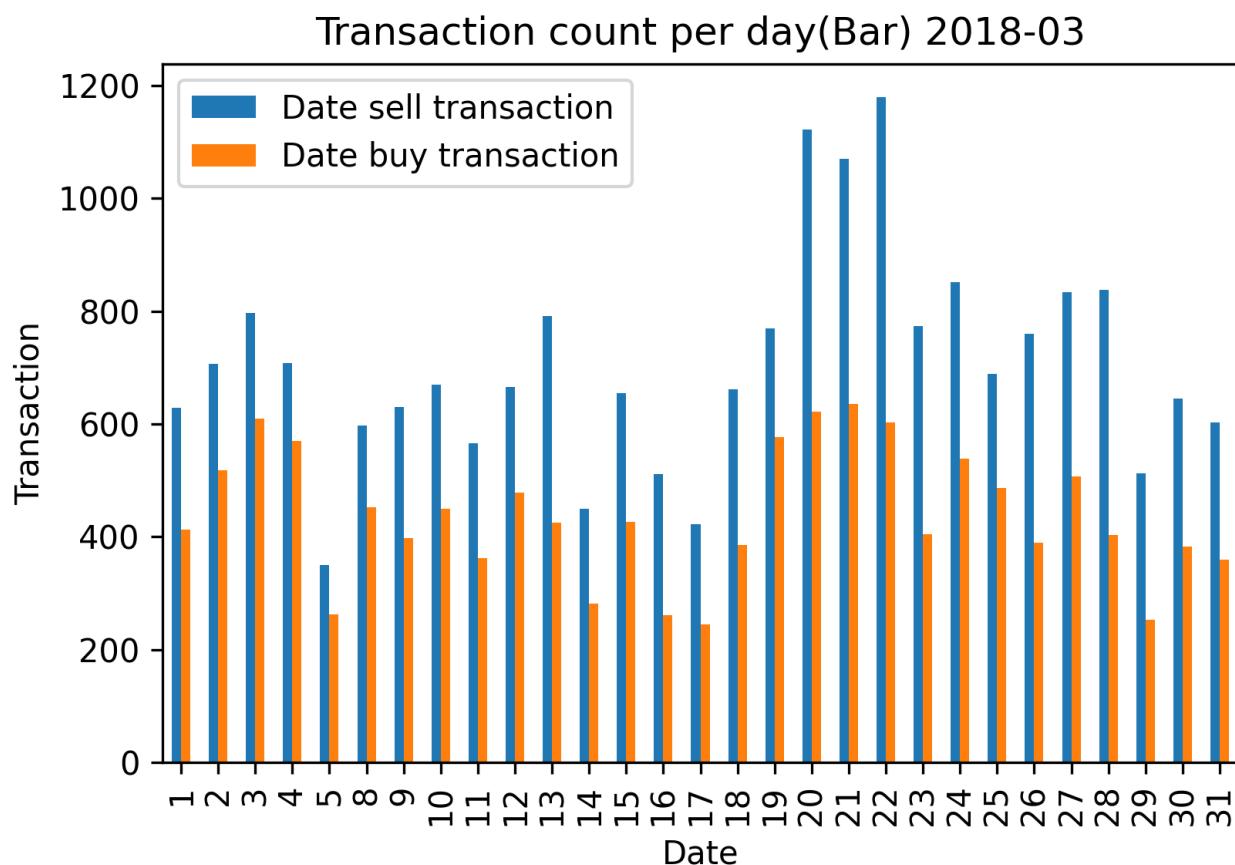
각 달별 하루 sell, buy transaction

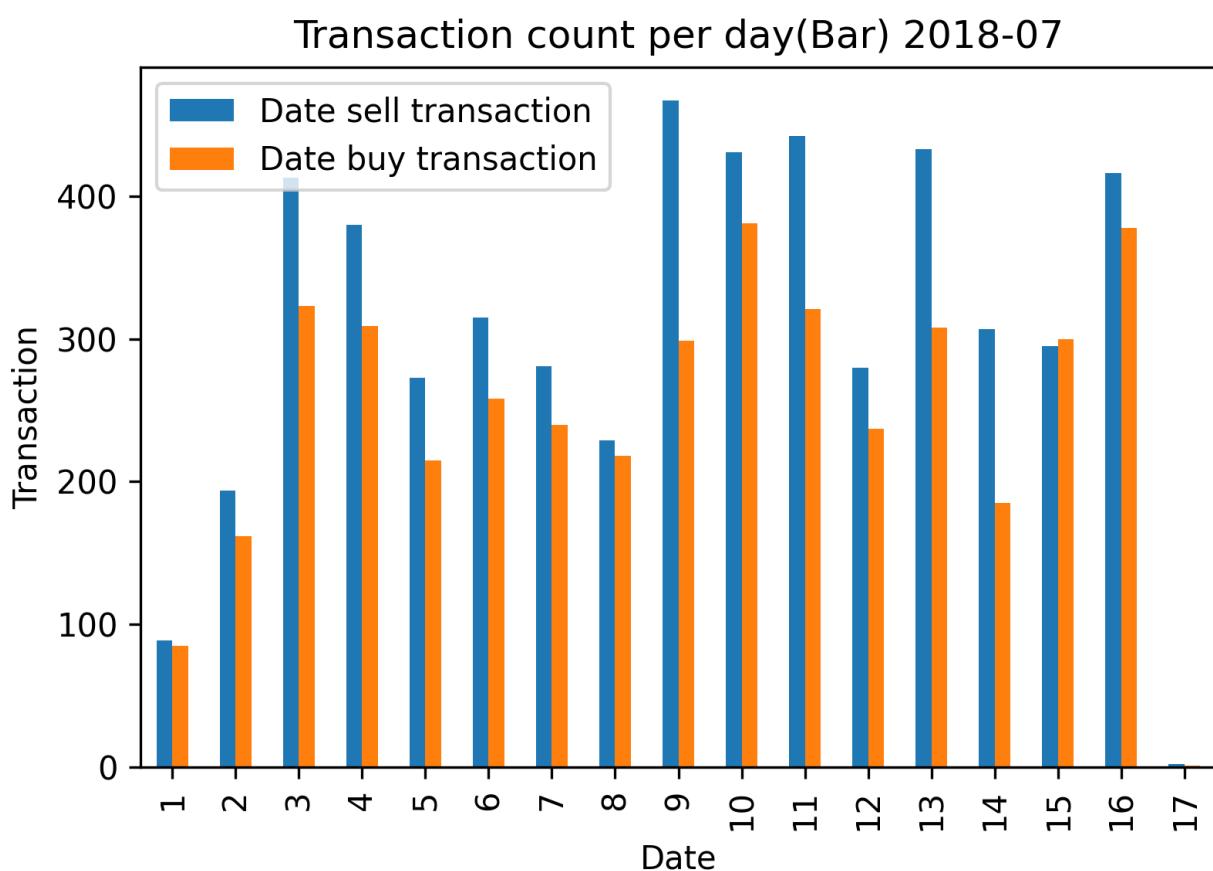
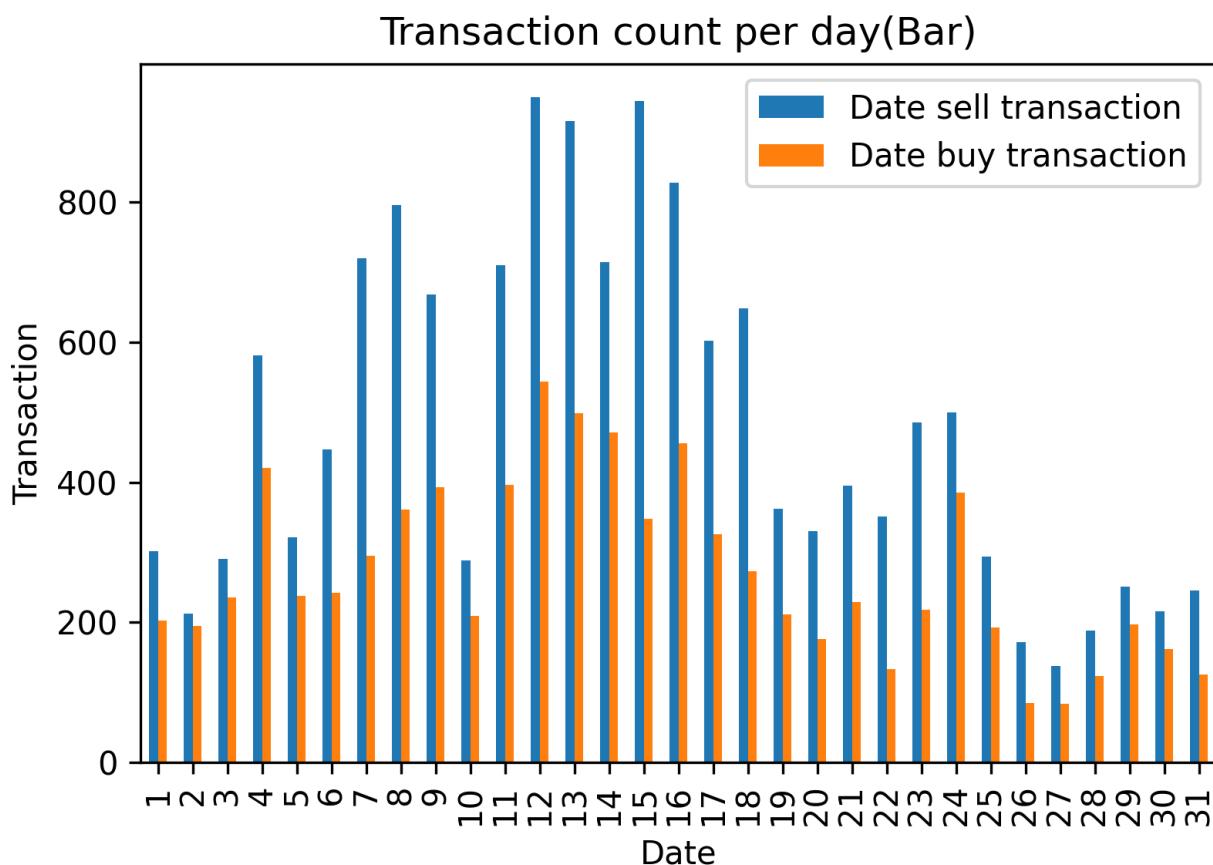




이런식으로 세가지 그래프를 그려보았으나 bar 그래프가 bar그래프가 제일 보기 좋아 보여 bar 그래프만 첨부합니다.





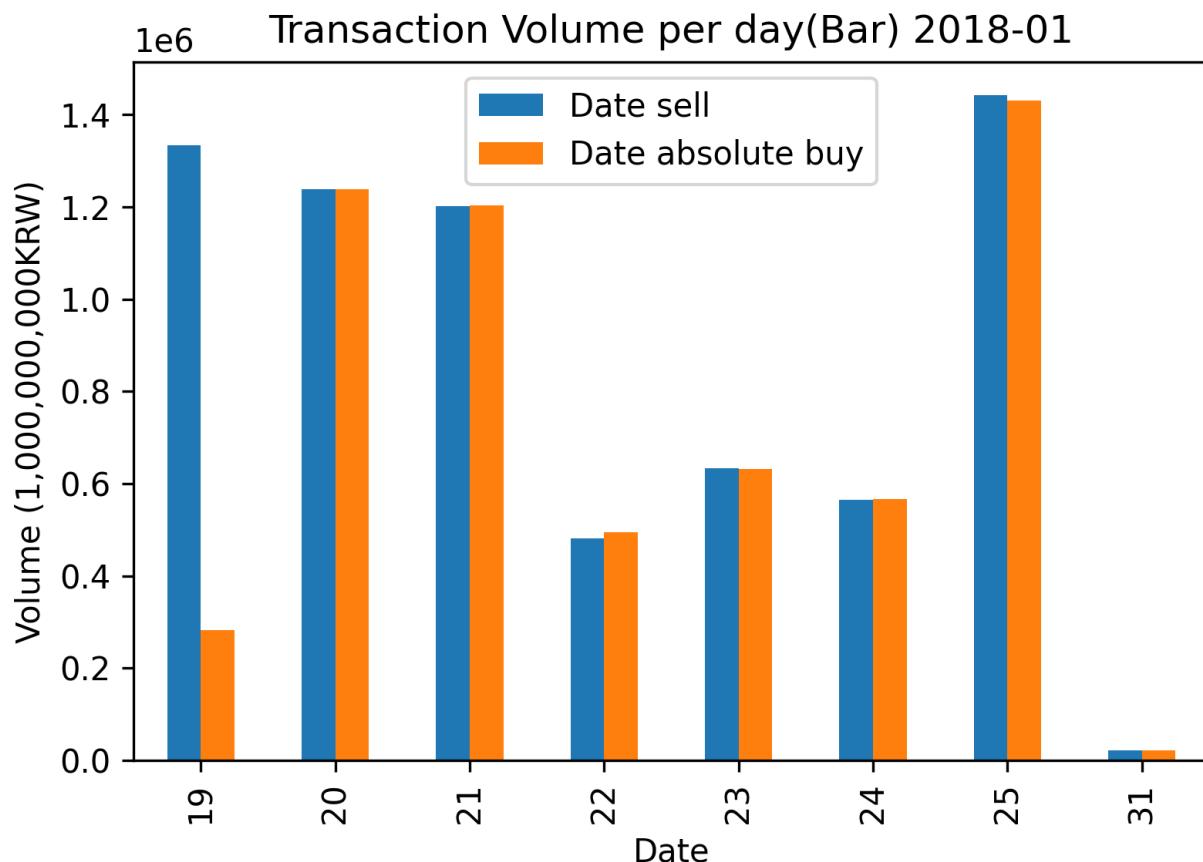


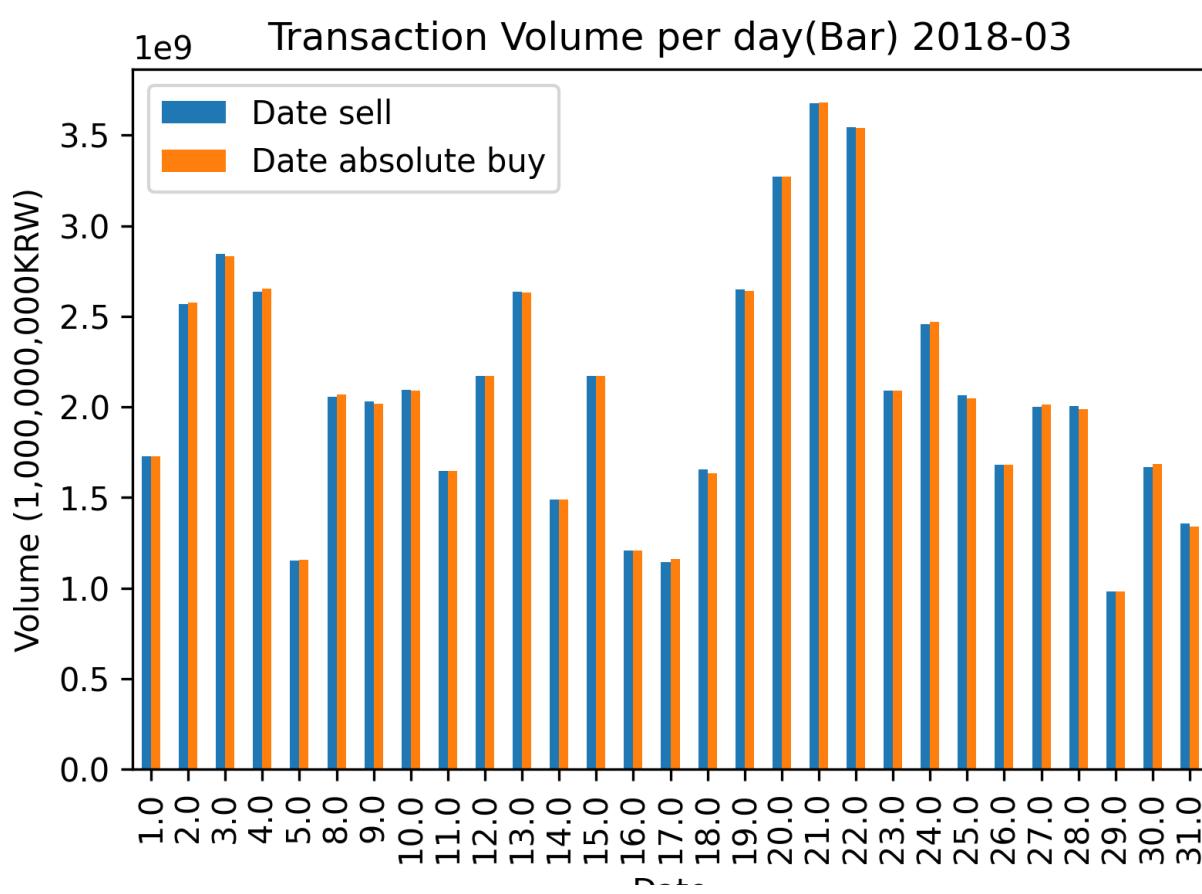
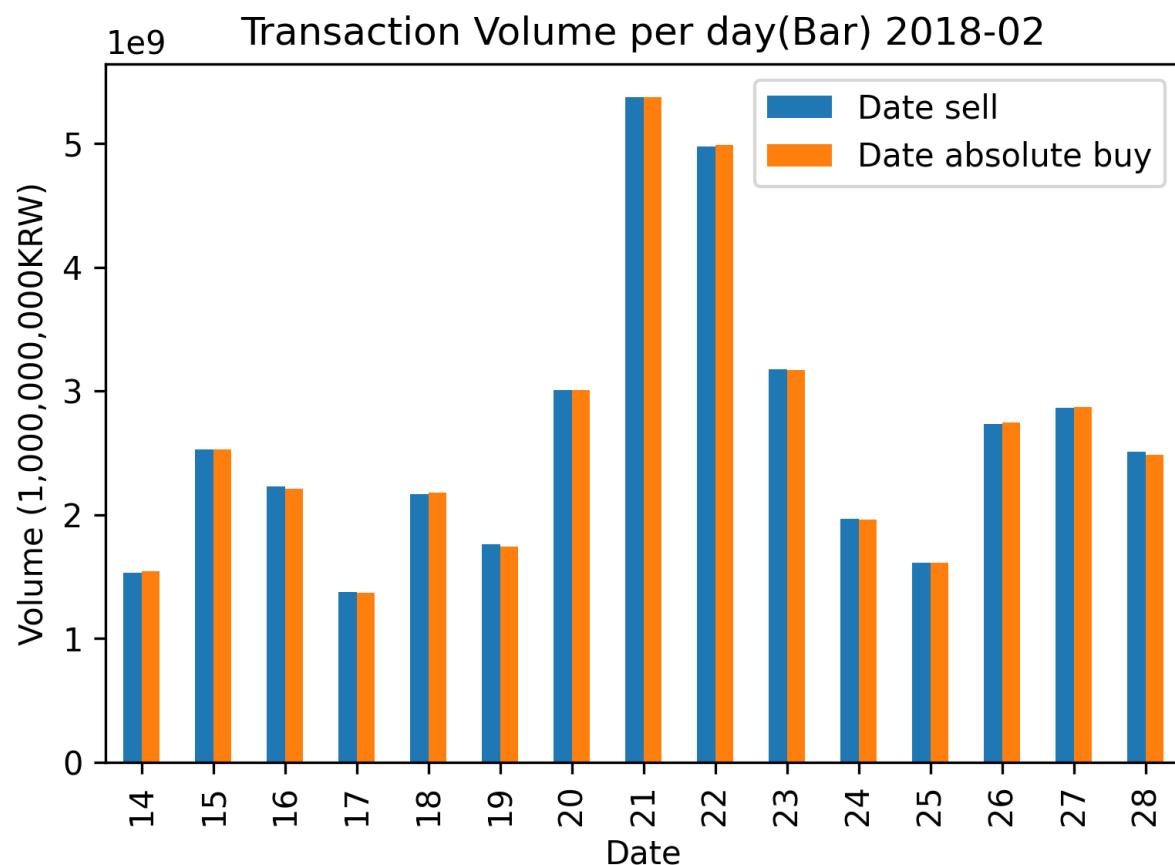
보통 한 번에 큰 양을 buy하여 작은 금액으로 여러번 sell 하기 때문에 sell의 transaction 수가 buy의 transaction 수보다 많은 경향을 띍니다.

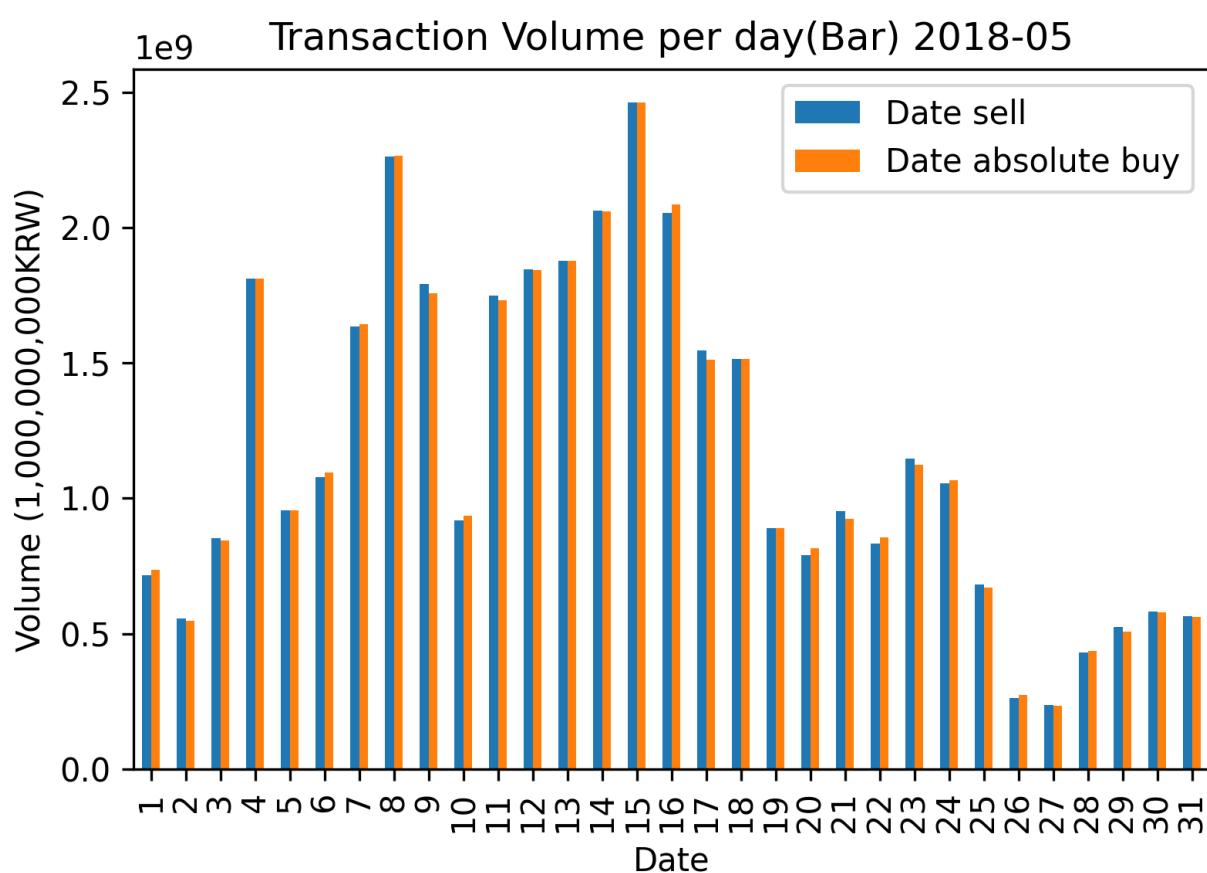
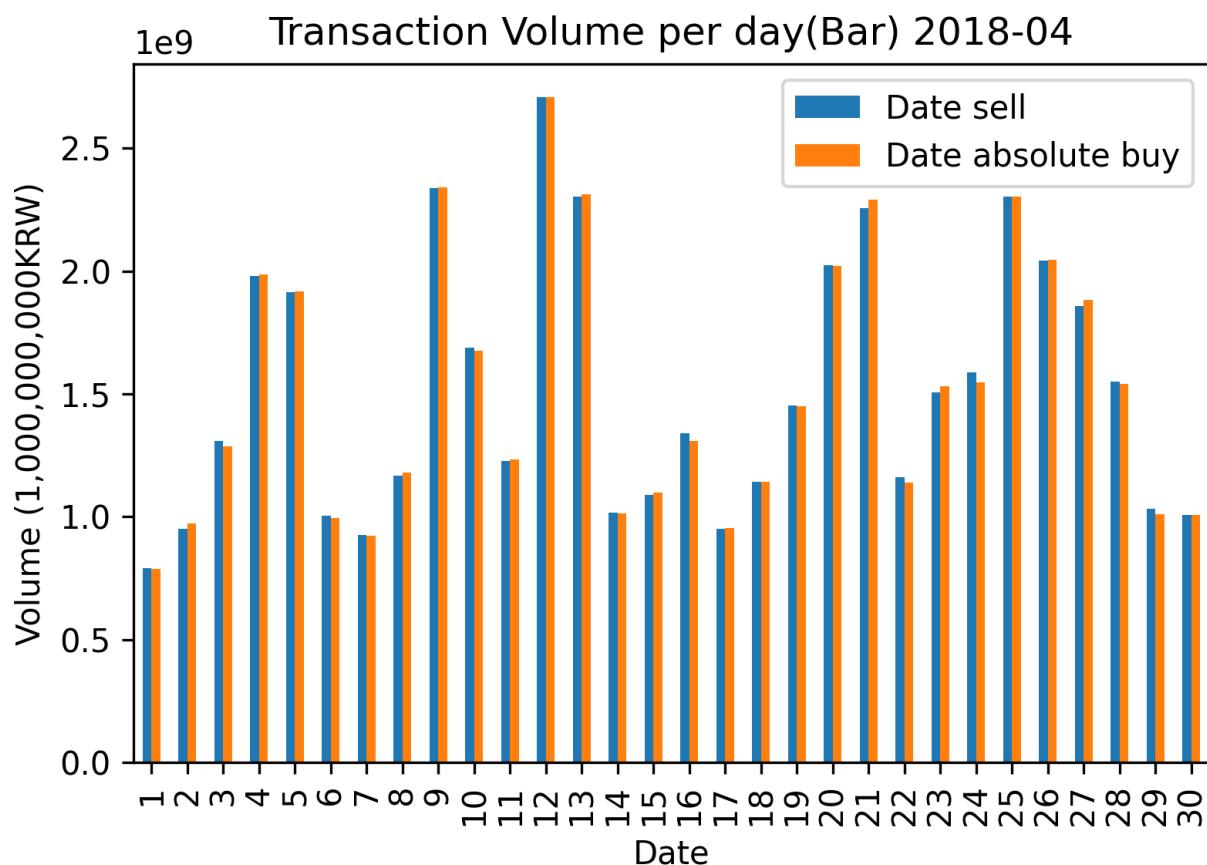
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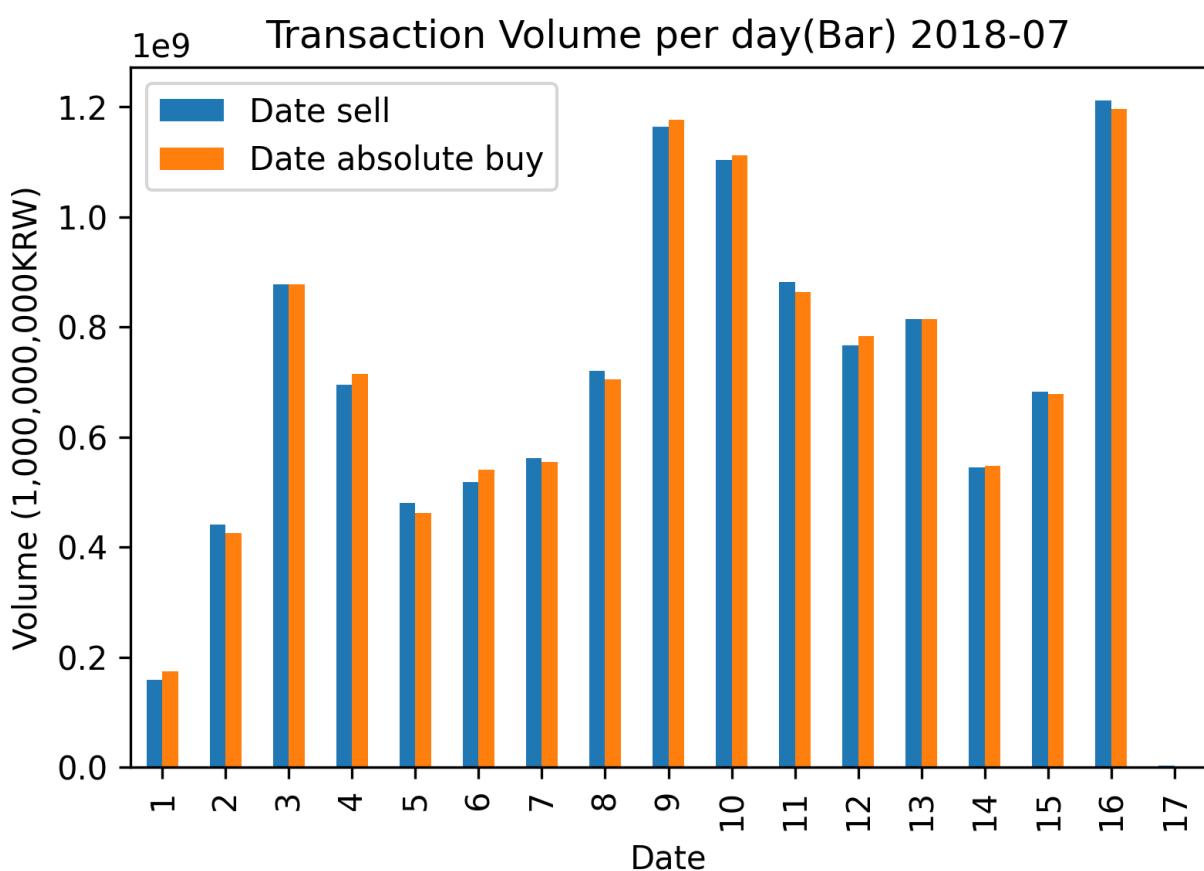
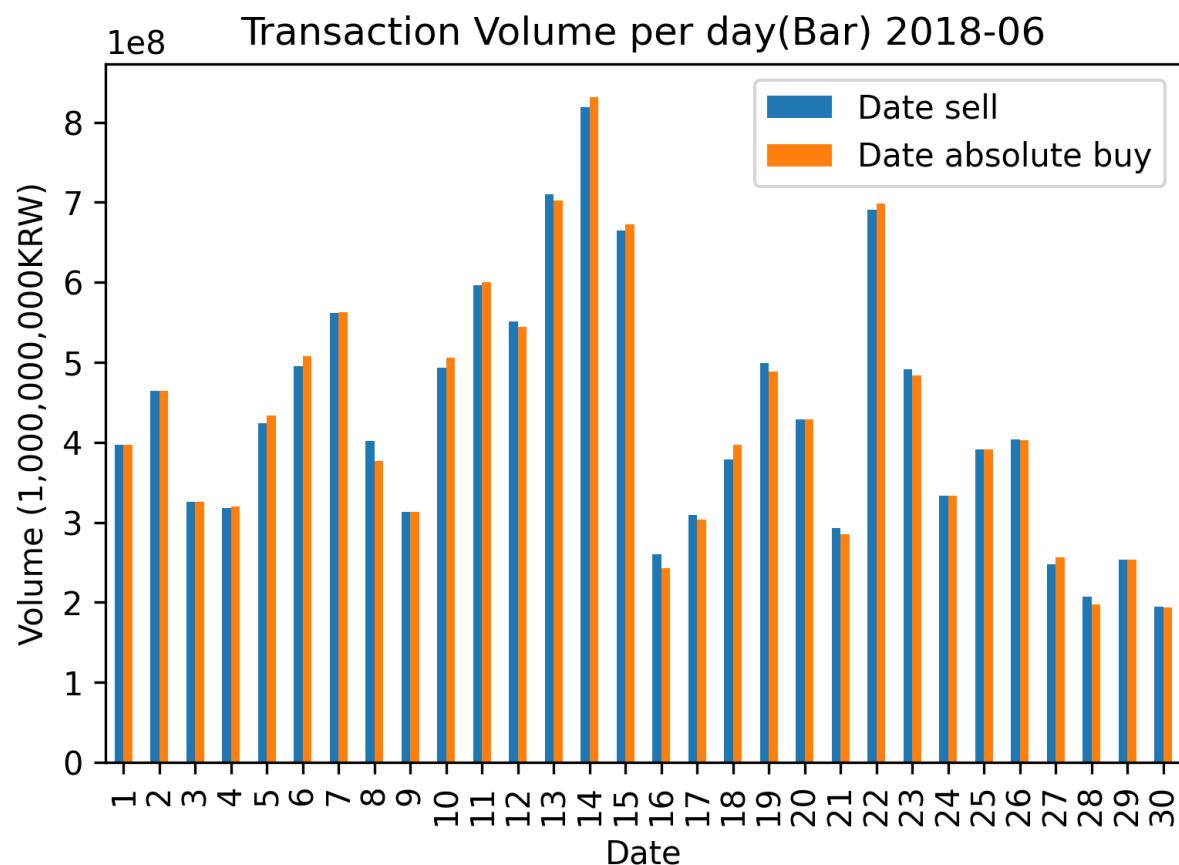
## 각 달 별 하루 sell, buy, volume

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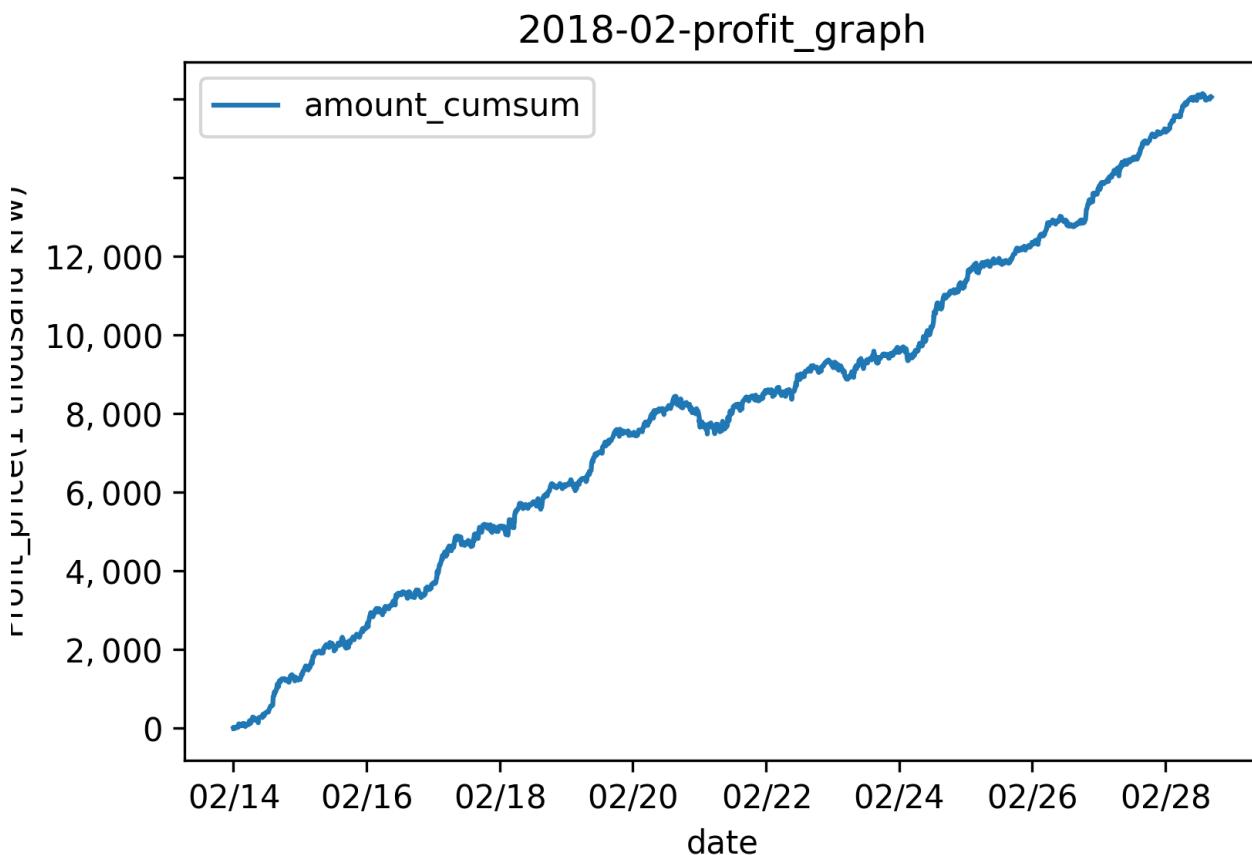




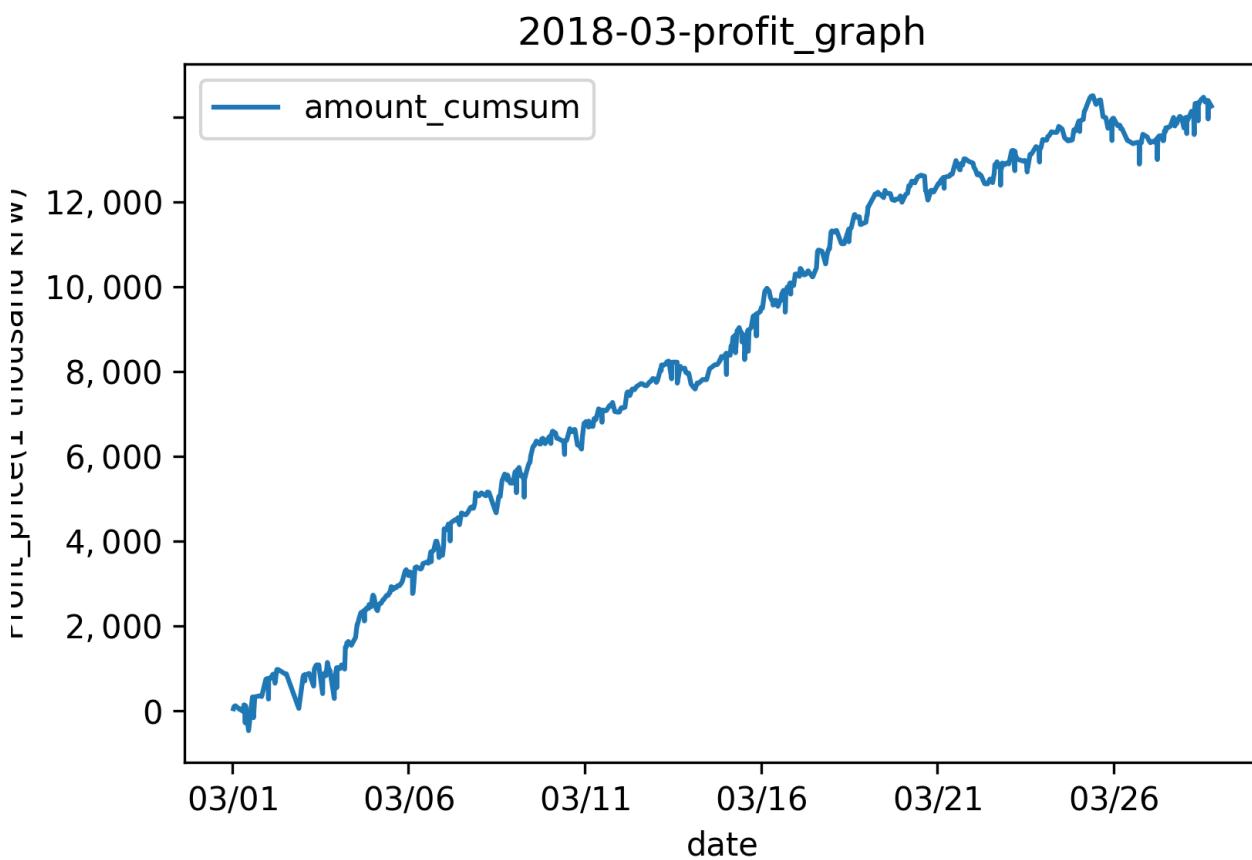


Date	Feb	Mar	Apr	May	Jun	Jul
Profit(KRW)	20,057,445	3,562,946	23,967,448	11,999,306	4,513,842	494,149Buy Cnt
Sell Cnt	7,610	12,696	11,552	8,427	3,192	4,220
Buy (KRW)	39,797,858,457	60,657,579,097	45,609,884,185	36,622,277,210	12,912,680,246	11,622,096,132
Sell (KRW)	39,817,915,902	60,669,715,599	45,635,560,225	36,634,276,516	12,917,194,088	11,622,590,281

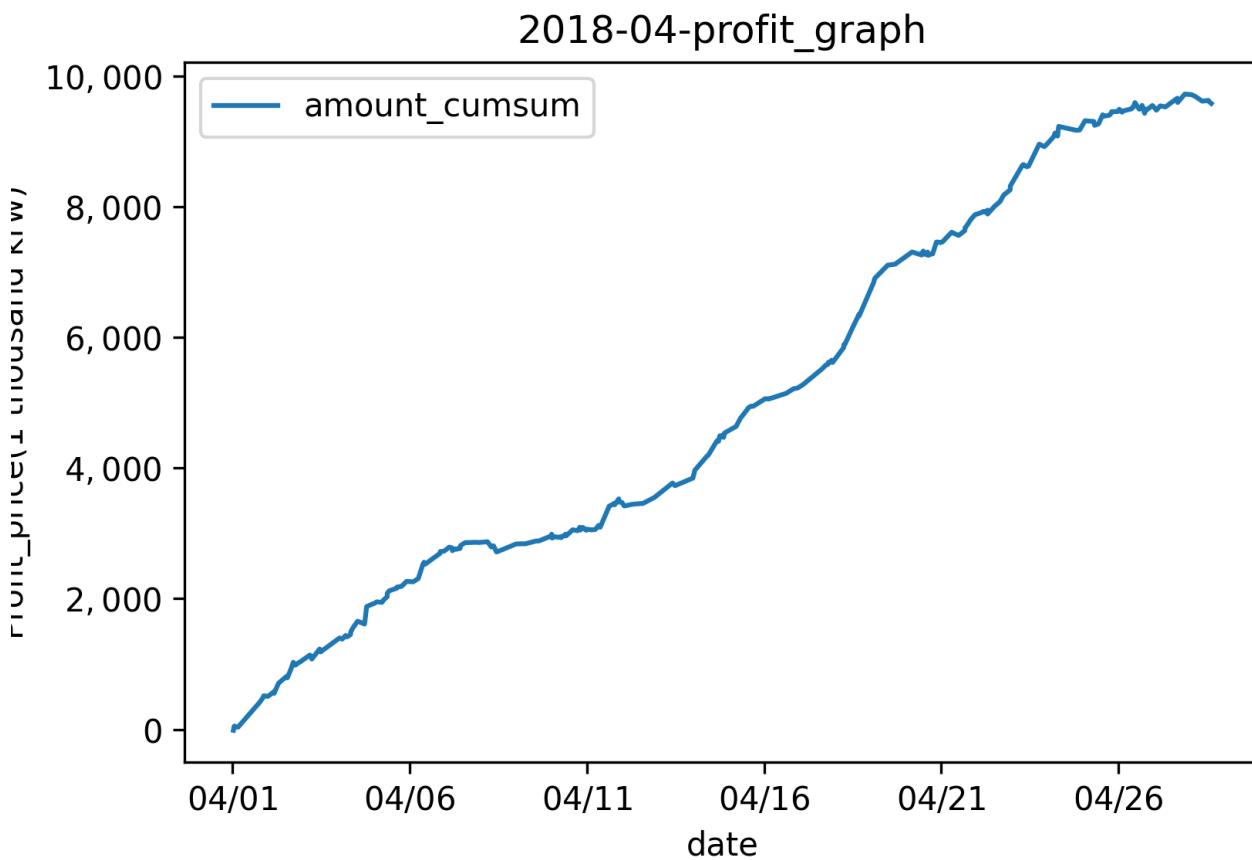
### Bithumb February Profit Graph



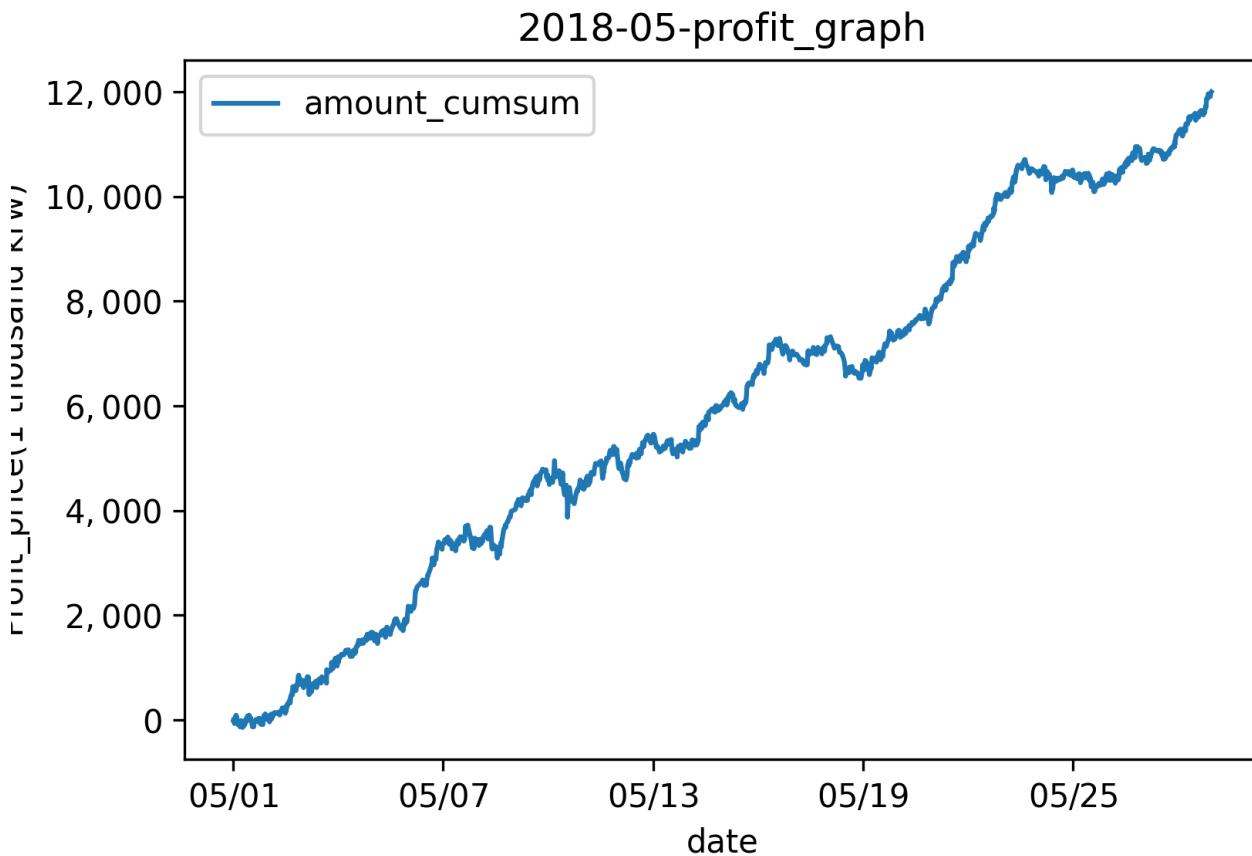
### Bithumb March Profit Graph



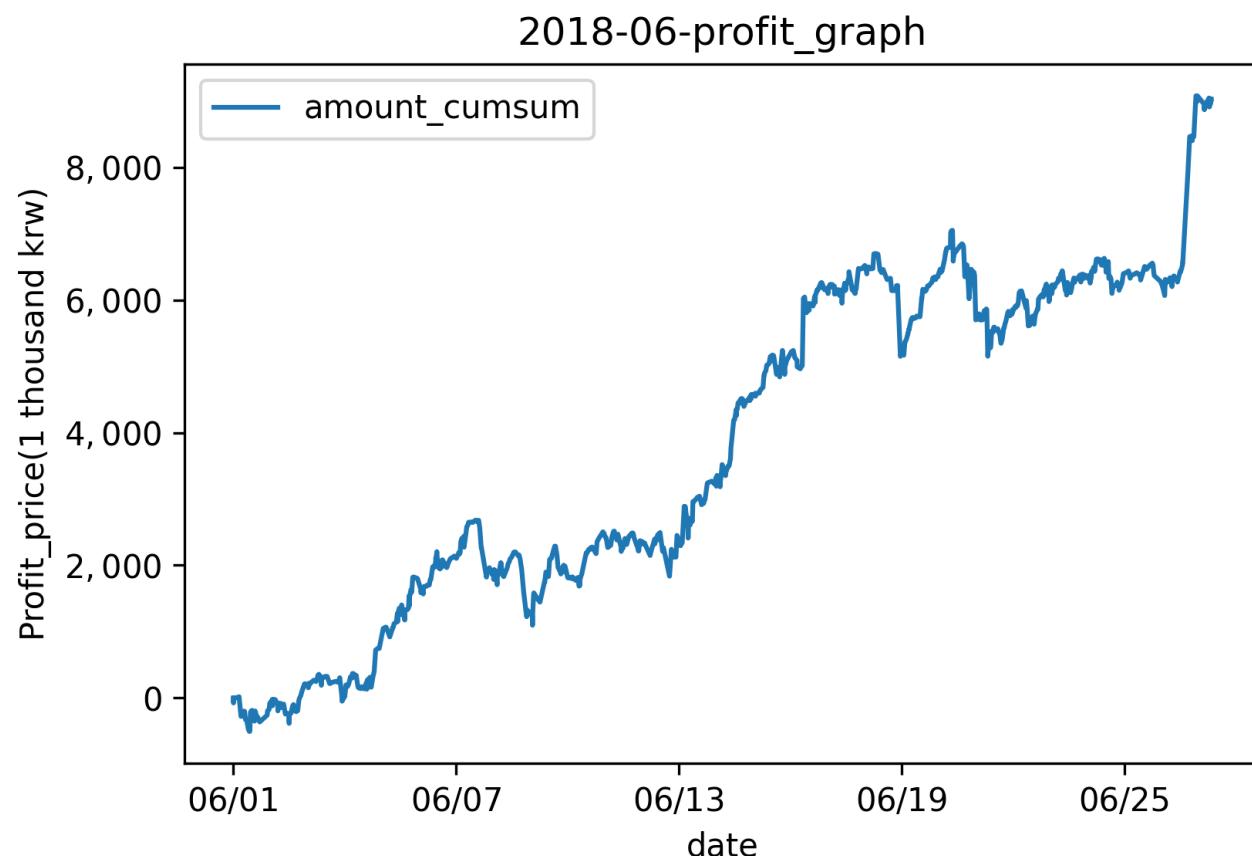
Bithumb April Profit Graph



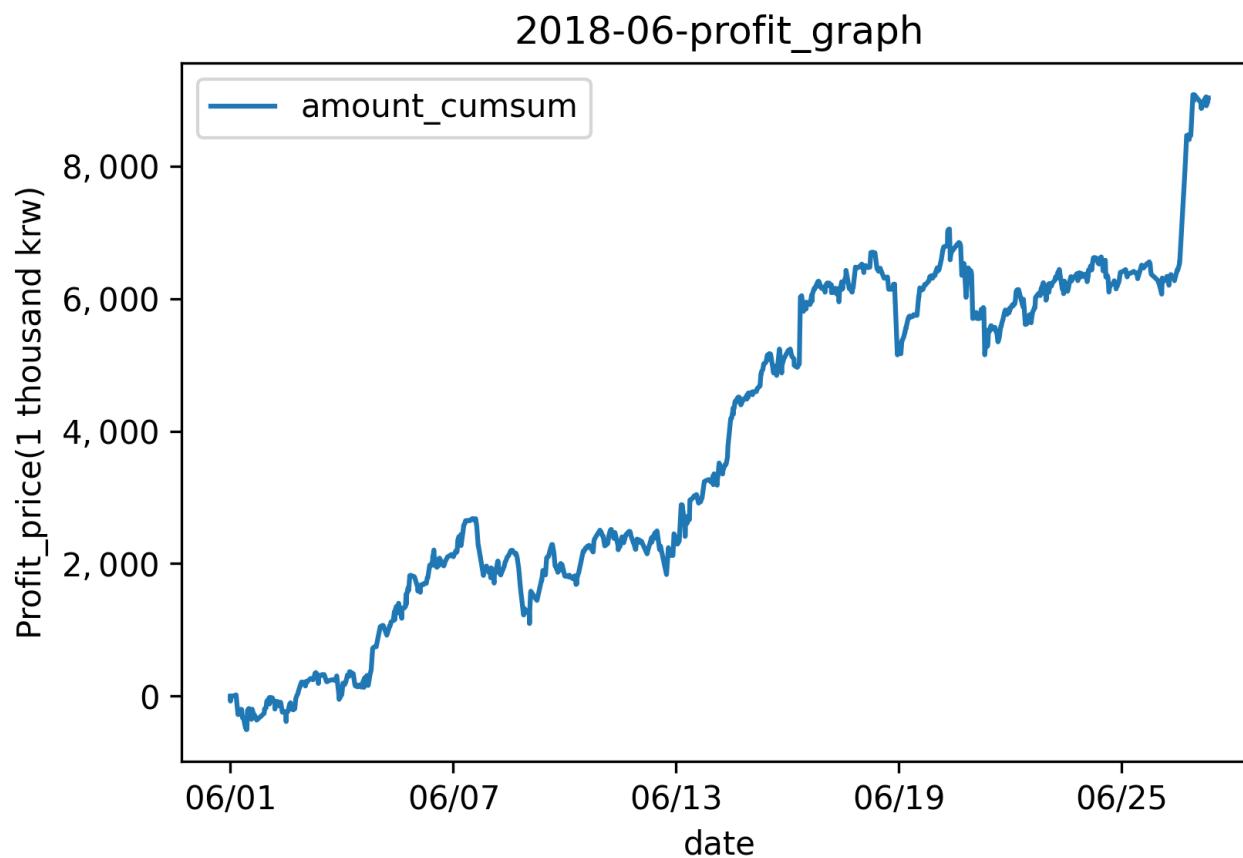
## Bithumb May Profit Graph



## Bithumb June Profit Graph



## Bithumb July Profit Graph



## Profit Point extraction

- Number of points to calculate the profit according to different standard for the total amount having
- 0.01 means holding less than 100,000krw (Assume 1 bitcoin values 10,000,000krw)
- 0.01 means holding less than 10,000krw (Assume 1 bitcoin values 10,000,000krw)
- 0.01 means holding less than 1,000krw (Assume 1 bitcoin values 10,000,000krw)

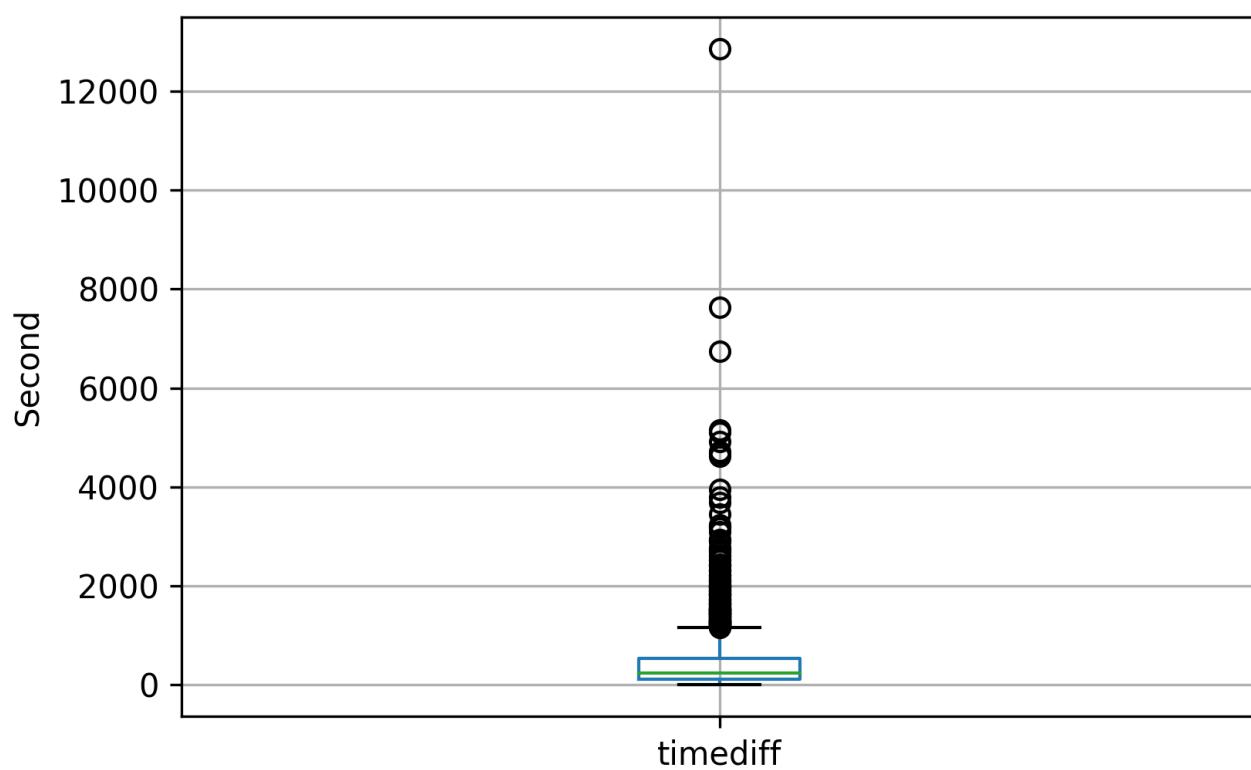
Owned	Jan	Feb	Mar	Apr	May	Jan	Jul
0.01	0	3159	835	266	2939	1248	941
0.001	0	2880	781	0	2438	1059	789
0.0001	0	2830	773	0	2358	1028	771

## Zero to Zero Time interval

- Hour:Minnute:Second
- By 0.01

Month	Min	Max	Mean
Feb	00:00:41	03:34:21	00:06:50
Mar	00:04:49	05:56:51	00:08:34
Apr	00:13:35	25:45:34	02:41:38
May	00:15:09	06:35:41	00:27:32
Jun	00:00:52	12:49:00	00:34:31
Jul	00:16:18	08:22:35	00:24:22

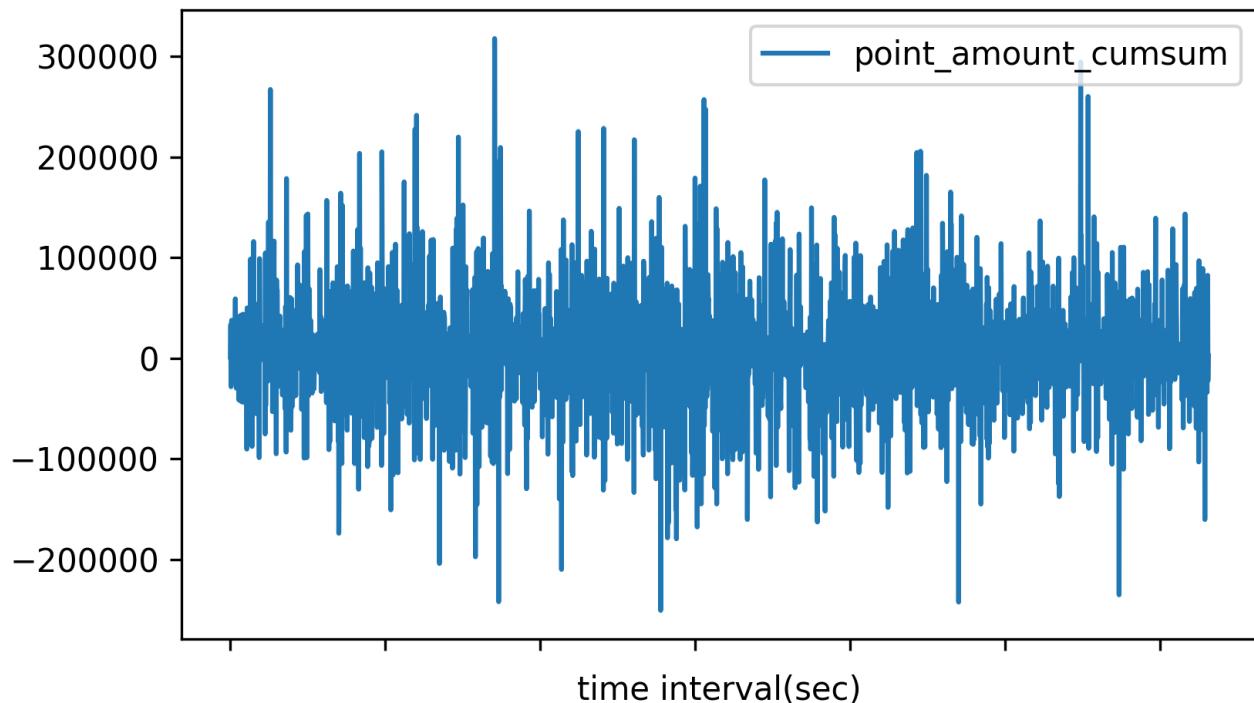
## February time interval graph



February time interval - profit graph.

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## February time interval-profit graph



- 다른 달도 있지만 큰 의미 없는 것 같아 생략하겠습니다. 필요하시면 말씀해 주세요!

## Summary By Month (Bithumb 2018)

Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Total trans	823	18367	33149	27790	23295	8779	9467	4016
Profit(KRW)	-	20,057,445	8,951,034	23,967,448	11,999,306	4,513,842	494,149	-
Point cumsum profit	-	2,385	-31,333	-89,836	8,336	56	27	-
Sell (KRW)	10,259,898	39,817,915,902	60,669,715,599	45,635,560,225	36,634,276,516	12,917,194,088	11,622,590,281	59,82,790,055
Buy (KRW)	7,375,346	39,797,858,457	60,657,579,097	45,609,884,185	36,622,277,210	12,912,680,246	11,622,096,132	5,966,645,458

## Summary By Month (Upbit 2018)

Date	Aug	Sep	Oct	Nov	Dec
Total trans	12,215	8,658	5,054	3,985	3,672
profit (KRW)	2,958,947	1,673,592	10,510	5,164,420	-683,606
Point cumsum profit	89,066	2,230	-175	34,094	-80,240
Sell (KRW)	10,694,677,228	6,606,541,721	2,966,715,367	2,502,762,133	1,849,349,267
Buy (KRW)	10,680,392,607	6,575,624,895	2,980,863,347	2,488,491,381	1,850,032,873

## Summary By Month (EOS 2018)

Date	Apr	May	Jun	Jul
Total trans	17,802	21,716	4,016	693

Date	Apr	May	Jun	Jul
Profit(KRW)	26,531,231	26,790,133	-	283,770
Point cumsum profit	458	-21,226	-	12,058
Sell (KRW)	31,134,212,201	36779974440	5,982,790,055	600,733,901
Buy (KRW)	31,127,884,338	36,755,751,094	5,966,645,458	600,450,131

## Summary By Month (Upbit 2019)

Date	Feb	May	June	July
Total trans	4,579	17,622	37,907	19,652
Profit(KRW)	-135,473	1,728,400	1,513,153	-2,666,093
Point cumsum profit	-60,390	56,242	-21,272	-185,752
Sell (KRW)	2,415,870,049	16,416,783,692	32,873,943,190	25,367,995,572
Buy (KRW)	2,416,005,522	16,415,055,292	32,879,246,140	25,364,586,093

## 각 달 별 요약 테이블

num of trans. : 트랜잭션 개수  
 num of buy trans. : 사는 트랜잭션 개수  
 num of sell trans. : 파는 트랜잭션 개수  
 cumsum\_profit : 누적 이윤  
 point\_cumsum\_profit : 구간별 이윤 (0이 되는 시점 사이)  
 positive amount : 번 금액(원화)  
 negative amount : 잃은 금액(원화)  
 coin of 1 tras. : 1트랜잭션 당 평균 코인 개수  
 coin of 1 buy trans. : 사는 1트랜잭션 당 평균 코인 개수  
 coin of 1 sell tras. : 파는 1트랜잭션 당 평균 코인 개수

## bithumb btc 2018.01 ~2018.07 요약 테이블

-	2018-01	2018-02	2018-03	2018-04	2018-05	2018-06	2018-07
num of trans.	823.0	18367.0	33149.0	27790.0	23295.0	877	877
num of buy trans.	409.0	10757.0	20453.0	16238.0	14868.0	558	558
num of sell trans.	414.0	7610.0	12696.0	11552.0	8427.0	319	319
cumsum_profit		20057445.0	3562946.0	23967448.0	11999306.0	451	451
point_cumsum_profit		2385.0	-31333.0	-89836.0	86556.0	56.	56.
positive amount	10259898.0	39817915902.0	60669715599.0	45635560225.0	36634276516.0	129	129
negative amount	-7375346.0	-39797858457.0	-60657579097.0	-45609884185.0	-36622277210.0	-12	-12
coin of 1 tras.	0.00136328227217497	0.36250535148636137	0.37065456331201546	0.3851542489899244	0.3291892953719682	0.3	0.3
coin of 1 buy trans.	0.0015694827139364305	0.30947920936599427	0.3003234156896299	0.32958421968530605	0.2578848746993543	0.3	0.3
coin of 1 sell tras.	-0.0011595721739130432	-0.4374596498817346	-0.48395662398629485	-0.463265929724723	-0.45499374850599267	-0.5	-0.5

## bithumb eos 2018.01 ~2018.07 요약 테이블

-	2018-04	2018-05	2018-06	2018-07
num of trans.	17802.0	21716.0	4016.0	693.0
num of buy trans.	9859.0	12457.0	2298.0	410.0
num of sell trans.	7943.0	9259.0	1718.0	283.0
cumsum_profit	26531231.0	26790133.0		283770.0
point_cumsum_profit	458.0	-21226.0		12058.0
positive amount	31134212201.0	36779974440.0	5982790055.0	600733901.0

-	2018-04	2018-05	2018-06	2018-07
negative amount	-31127884338.0	-36755751094.0	-5966645458.0	-600450131.0
coin of 1 tras.	184.68292993396418	195.54757809860467	210.3672099355204	177.17513437685426
coin of 1 buy trans.	166.6865564018795	170.439419884184	184.07707014768062	149.7345952864878
coin of 1 sell tras.	-207.0203649903437	-229.3279352513252	-245.53294988456344	-216.92997899540634

### upbit btc 2018.07 ~2018.12 요약 테이블

-	2018-07	2018-08	2018-09	2018-10	2018-11	2018-
num of trans.	19145.0	12215.0	8658.0	5054.0	3985.0	3672.0
num of buy trans.	11598.0	7745.0	4774.0	2759.0	2357.0	2081.0
num of sell trans.	7535.0	4461.0	3876.0	2294.0	1628.0	1589.0
cumsum_profit	400090.0	2958947.0	1673592.0	10510.0	5164420.0	-6836
point_cumsum_profit	6045.0	89066.0	2230.0	-175.0	34094.0	-8024
positive amount	13243152231.0	10694677228.0	6606541721.0	2966715367.0	2502762133.0	18493
negative amount	-13249752210.0	-10680392607.0	-6575624895.0	-2980863347.0	-2488491381.0	-1850
coin of 1 tras.	0.16271326027787936	0.23469482569381908	0.20259829090321088	0.15975957289275822	0.20465262590213298	0.2262
coin of 1 buy trans.	0.13426256674943957	0.1851311574306004	0.18413238545454544	0.14596319028271112	0.1734282433983878	0.1995
coin of 1 sell tras.	-0.2067641829754479	-0.32121866878278416	-0.22576057644994837	-0.17642216190061027	-0.24985893398648648	-0.261

### upbit btc 2019.02 요약 테이블

-	2019-02
num of trans.	4579.0
num of buy trans.	2604.0
num of sell trans.	1972.0
cumsum_profit	-135473.0
point_cumsum_profit	-60390.0
positive amount	2415870049.0
negative amount	-2416005522.0
coin of 1 tras.	0.24641927307927497
coin of 1 buy trans.	0.21665781338325651
coin of 1 sell tras.	-0.2860937653194726

### upbit btc 2019.05 ~2019.07 요약 테이블

-	2019-05	2019-06	2019-07
num of trans.	17622.0	37907.0	19652.0
num of buy trans.	10331.0	21414.0	11705.0
num of sell trans.	7276.0	16485.0	7945.0
cumsum_profit	1728400.0	1513153.0	-2666093.0
point_cumsum_profit	56242.0	-21272.0	-185752.0
positive amount	16416783692.0	32873943190.0	25367995572.0
negative amount	-16415055292.0	-32879246140.0	-25364586093.0
coin of 1 tras.	0.19526902352286915	0.13933743088849024	0.19451098149704865
coin of 1 buy trans.	0.1665390896253993	0.12331593064583918	0.16330709716445962

-	2019-05	2019-06	2019-07
coin of 1 sell tras.	-0.23646445811434855	-0.16021696413284808	-0.24053118137444934

## 분, 시간, 일 당 transaction 개수 테이블

bitthumb-2018-01-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	2	1.0072992700729928	1	2	1.0049140049140048	1	3	1.0564826700898589
hour	1	14	3.312	1	12	3.3252032520325203	1	26	6.0962962962962965
date	1	108	37.6363636363636363	1	109	45.444444444444444	1	217	68.58333333333333

bitthumb-2018-02-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	20	1.6979027219991076	1	14	1.8750217883911453	1	21	2.1767006399620765
hour	1	76	21.316526610644253	1	118	30.047486033519554	1	193	51.30446927374302
date	263	919	507.33333333333333	357	1293	717.13333333333333	688	2212	1224.4666666666666667

bitthumb-2018-03-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	28	1.7101293103448276	1	26	2.1219006120966903	1	29	2.231354334948842
hour	1	61	18.58857979502196	1	96	29.94582723279649	4	131	48.53440702781845
date	244	636	437.7931034482759	350	1179	705.2758620689655	613	1782	1143.0689655172414

bitthumb-2018-04-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	40	1.8620245003223728	1	24	2.1346128565794658	1	40	2.3081395348837206
hour	1	117	16.385815602836875	1	121	22.93502824858757	2	208	39.196050775740474
date	202	745	385.0666666666666666	336	931	541.266666666666667	538	1600	926.333333333333

bitthumb-2018-05-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	44	1.7148962148962148	1	32	2.017915309446254	1	44	2.099026851684988
hour	1	73	11.802521008403364	1	129	20.535911602209946	1	198	31.954732510288068
date	1	544	263.34375	138	950	479.61290322580646	1	1494	727.96875

bitthumb-2018-06-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	18	1.4436906377204886	1	15	1.6971445929526123	1	19	1.6970809974869514
hour	1	42	5.5706806282722505	1	70	9.040453074433655	1	101	13.91283676703645
date	47	248	106.4	87	373	186.23333333333333	142	563	292.63333333333333

## bitumb-2018-07-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	28	1.829215431296056	1	27	1.9003984063745016	1	30	2.0706474190726163
hour	1	71	12.411764705882351	1	91	14.73876404494382	1	135	25.936986301369863
date	1	381	248.23529411764707	2	467	308.6470588235294	3	812	556.8823529411765

## bitumb-2018-04-eos-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	35	2.371044776119404	1	39	2.574151436031332	1	39	3.3374578177727785
hour	6	161	51.577922077922075	3	186	64.01948051948052	9	347	115.59740259740259
date	332	1753	1134.7142857142858	444	2043	1408.4285714285713	776	3796	2543.1428571428573

## bitumb-2018-05-eos-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	32	2.173474178403756	1	50	2.430634146341464	1	50	2.742265437555247
hour	1	103	19.57505285412262	1	111	26.225263157894734	1	195	45.526205450733755
date	67	1115	420.8636363636364	91	1464	566.2272727272727	173	2518	987.090909090909091

## bitumb-2018-06-eos-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	26	2.0698795180722893	1	13	2.1179723502304157	1	26	2.347165400350672
hour	1	62	10.16568047337278	1	78	12.7666666666666667	1	139	21.70810810810811
date	3	692	171.8	6	870	229.8	9	1562	401.6

## bitumb-2018-07-eos-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	7	1.4663212435233162	1	13	1.6666666666666667	1	13	1.65
hour	1	11	3.0760869565217392	1	16	4.183673469387755	1	25	6.537735849056604
date	32	65	47.1666666666666664	45	109	68.33333333333333	77	168	115.5

## upbit-2018-07-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	36	2.114790906539433	1	44	2.660091743119266	1	44	2.647994467496542
hour	1	92	12.558333333333335	1	139	18.82792207792208	1	176	30.583067092651763
date	3	699	251.1666666666666666	2	941	386.6	5	1640	638.1666666666666666

## upbit-2018-08-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	24	2.427094668117519	1	50	3.3528138528138527	1	50	3.1105169340463457
hour	1	80	9.761487964989056	1	146	15.459081836327345	1	202	23.22243346007605
date	42	522	185.875	87	984	322.7083333333333	129	1492	508.9583333333333

## upbit-2018-09-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	38	2.160535117056856	1	63	2.458290422245108	1	63	2.4395604395604398
hour	1	58	7.313207547169812	1	123	8.648550724637682	1	142	14.009708737864075
date	47	377	129.2	54	320	159.1333333333333	106	675	288.6

## upbit-2018-10-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	18	2.0911577028258894	1	60	2.605288007554297	1	60	2.4750244857982366
hour	1	108	5.792929292929293	1	92	6.680387409200969	1	200	10.128256513026052
date	2	373	74.0	2	430	89.0	18	803	163.03225806451613

## upbit-2018-11-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	15	1.99265605875153	1	45	2.663276836158192	1	45	2.479775980087118
hour	1	85	6.434782608695652	1	90	8.602189781021897	1	175	12.186544342507643
date	6	385	74.0	13	572	107.13636363636364	21	957	181.13636363636363

## upbit-2018-12-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	59	2.429663608562691	1	53	2.6045056320400497	1	59	2.848719937936385
hour	1	108	13.024590163934429	1	114	17.198347107438018	1	206	29.142857142857146
date	41	685	198.625	57	721	260.125	125	1406	459.0

## upbit-2019-02-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	161	5.005076142131982	1	196	4.126782884310618	1	196	4.730371900826446
hour	1	162	14.085714285714285	1	201	18.08333333333333	1	242	30.93918918918919
date	28	687	246.5	38	523	325.5	66	1006	572.375

## upbit-2019-05-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	160	2.985638079606073	1	173	3.5834200485605274	1	173	3.6590531561461783
hour	1	199	21.915662650602414	1	199	31.024024024024023	1	317	52.136094674556205

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
date	104	1156	454.75	223	1795	645.6875	327	2954	1101.375

### upbit-2019-06-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	155	3.8115606936416175	1	455	4.51676861421641	1	456	4.802609907512986
hour	1	350	27.429284525790354	1	749	34.538709677419355	1	914	58.408320493066256
date	76	2582	549.5	151	3228	713.8	229	5654	1263.5666666666666666

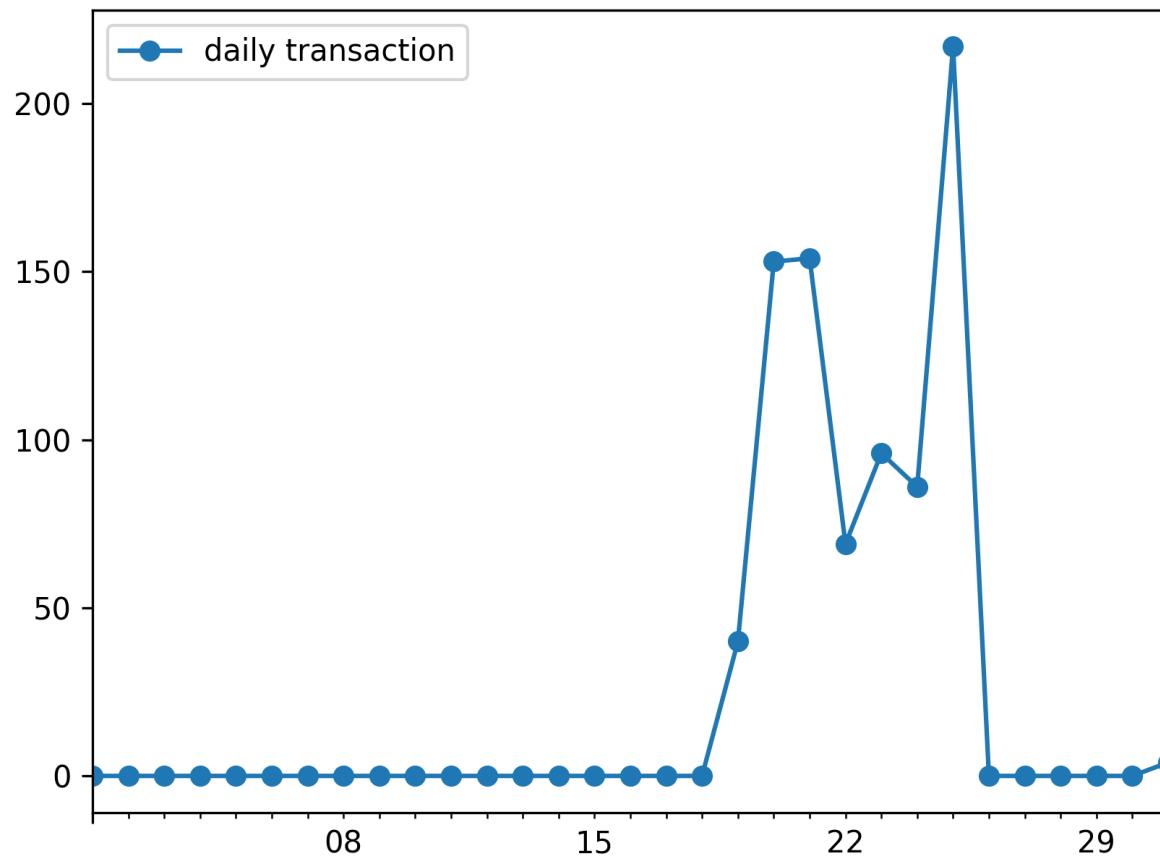
### upbit-2019-07-btc-TransactionTypeCounterPerMinuteHourDay

-	B_min	B_max	B_avg	S_min	S_max	S_avg	T_min	T_max	T_avg
minute	1	199	2.9404145077720205	1	26	3.336659064994299	1	199	3.483779471724872
hour	1	199	17.38512035010941	1	149	24.385416666666667	1	211	39.781376518218615
date	1	715	294.25925925925924	4	1740	450.1923076923077	1	2283	727.8518518518518

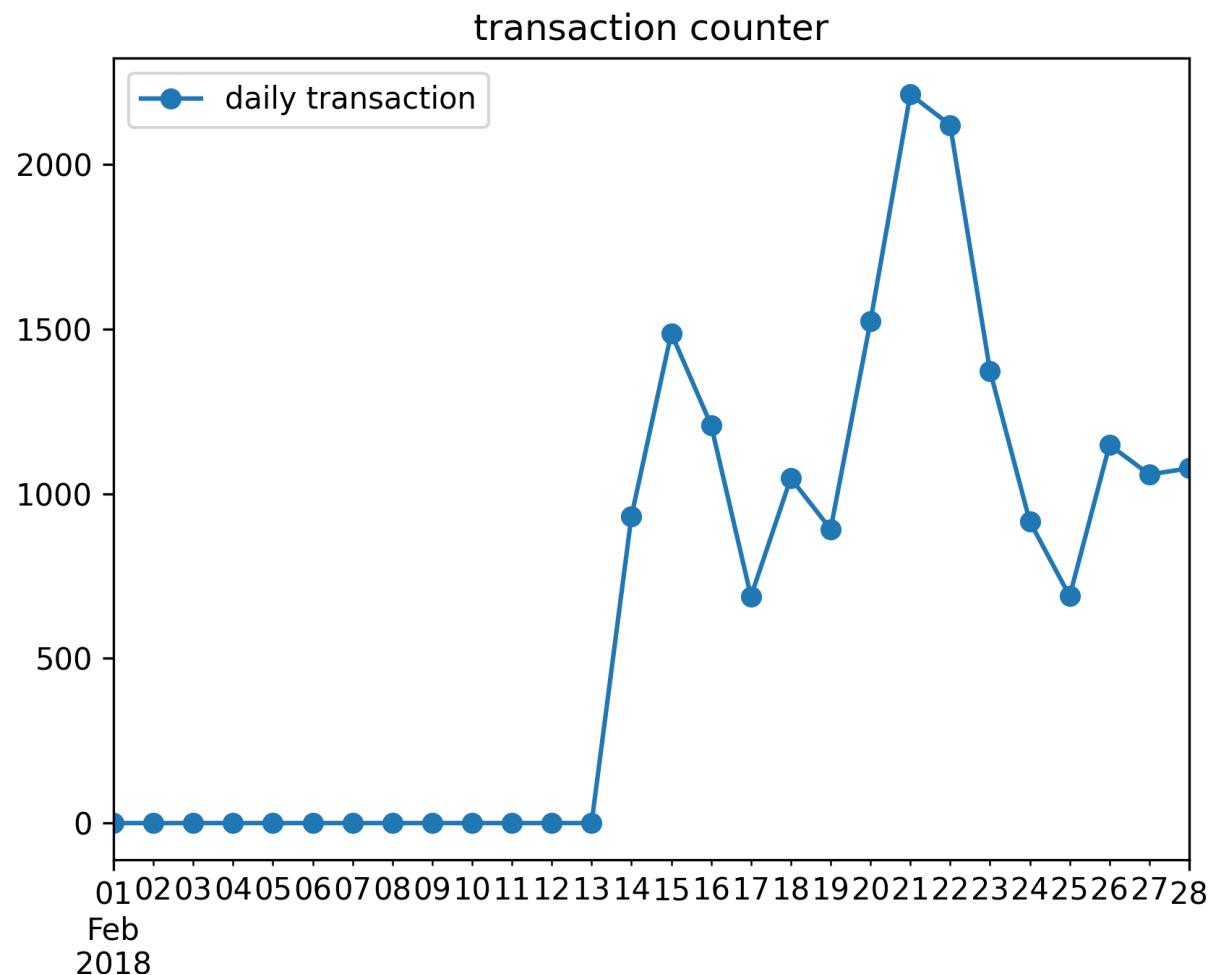
## 일별 transaction 개수 그래프

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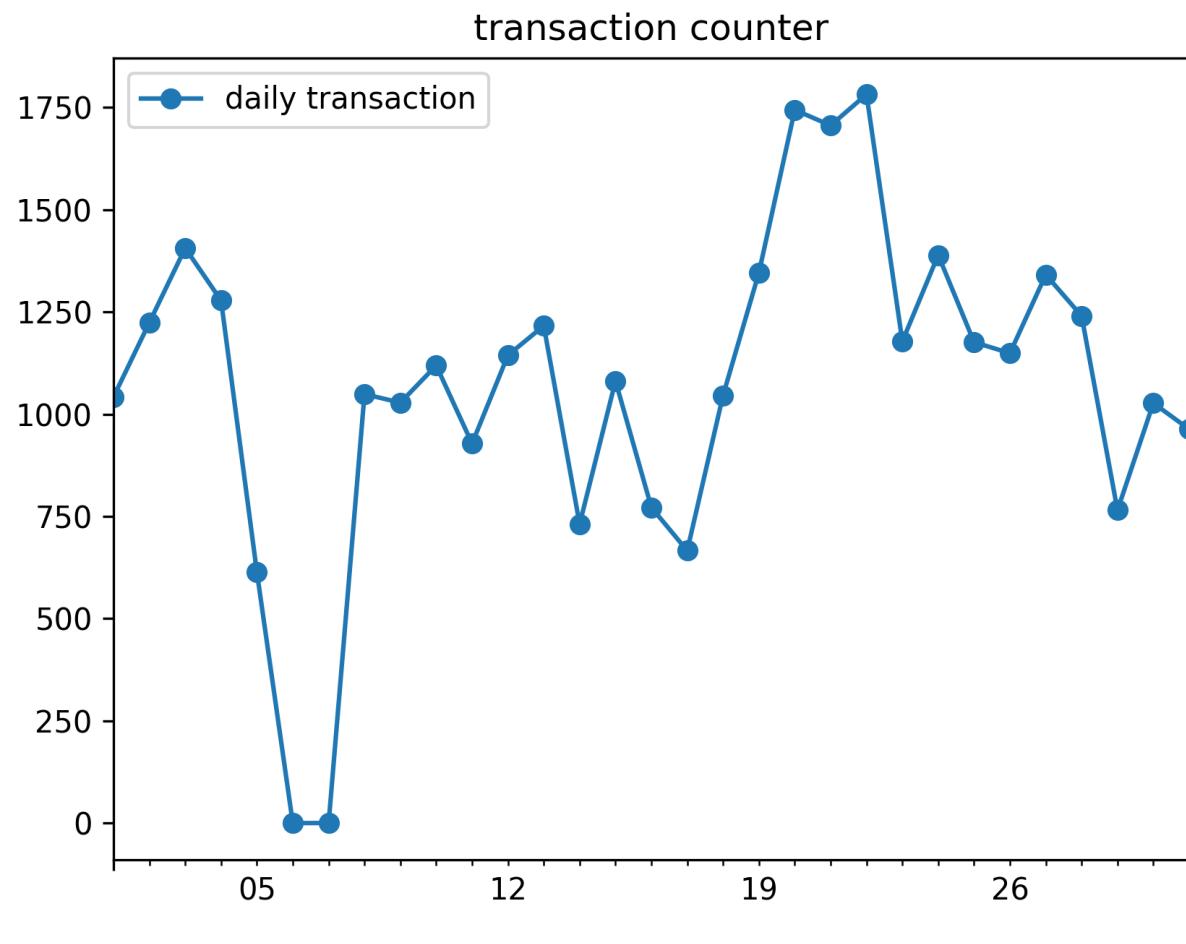
transaction counter



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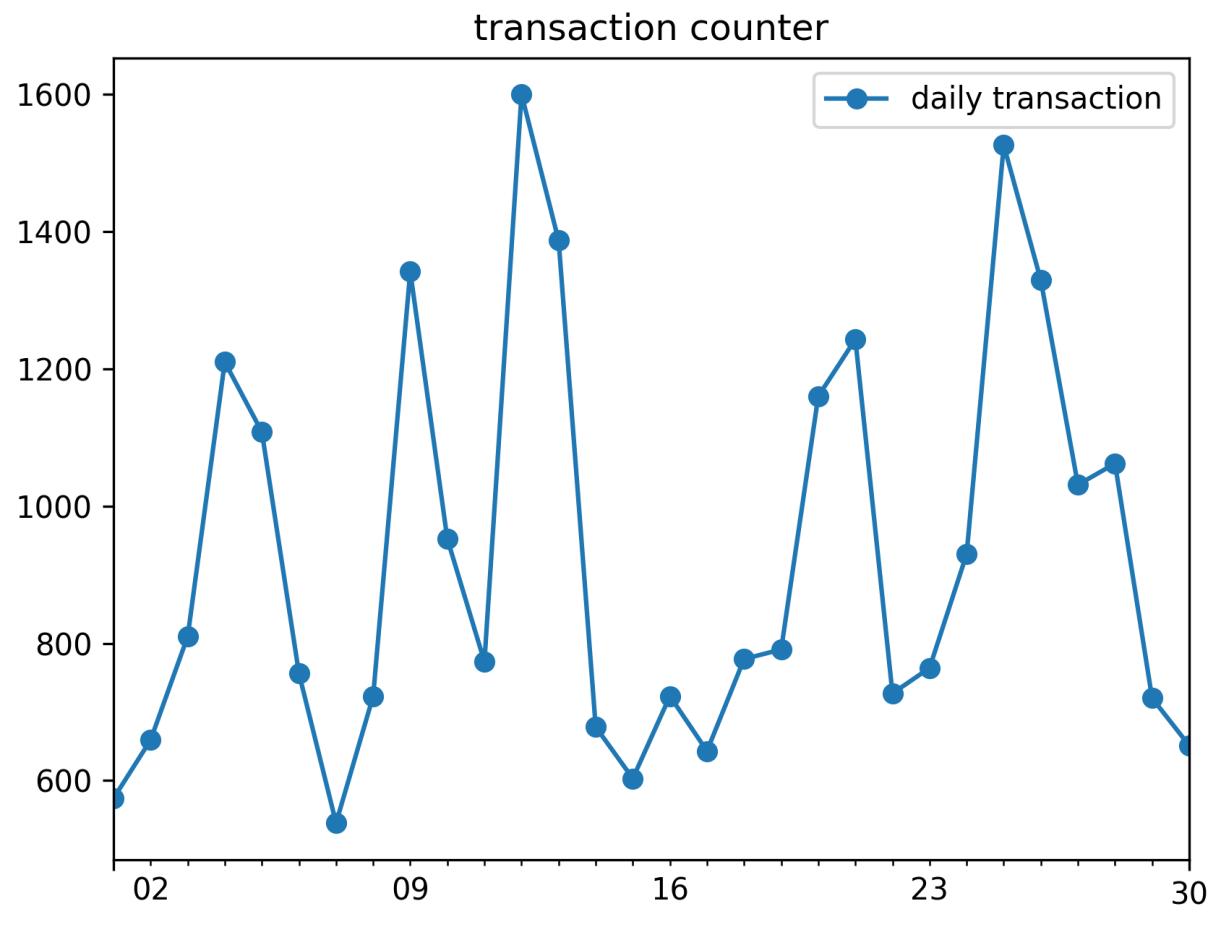


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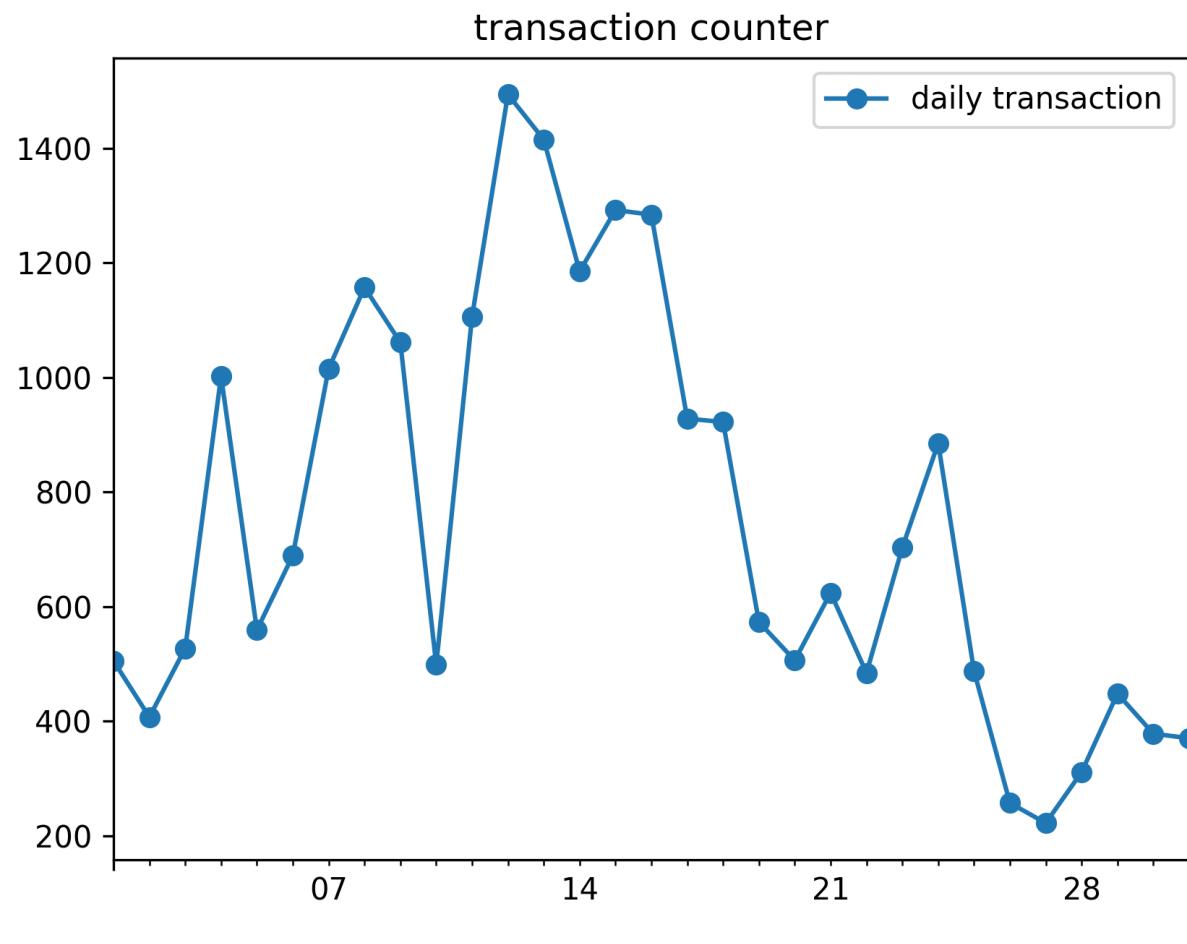
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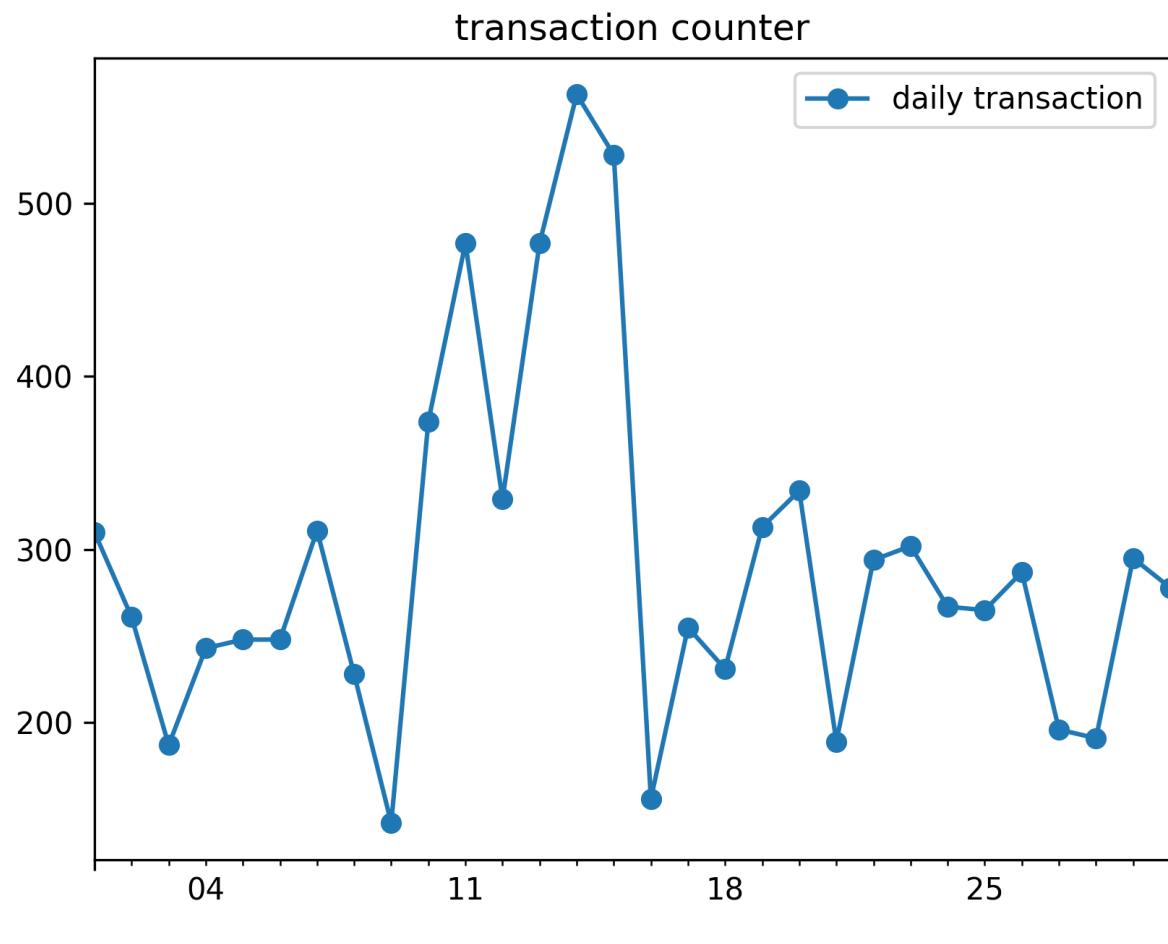


Apr

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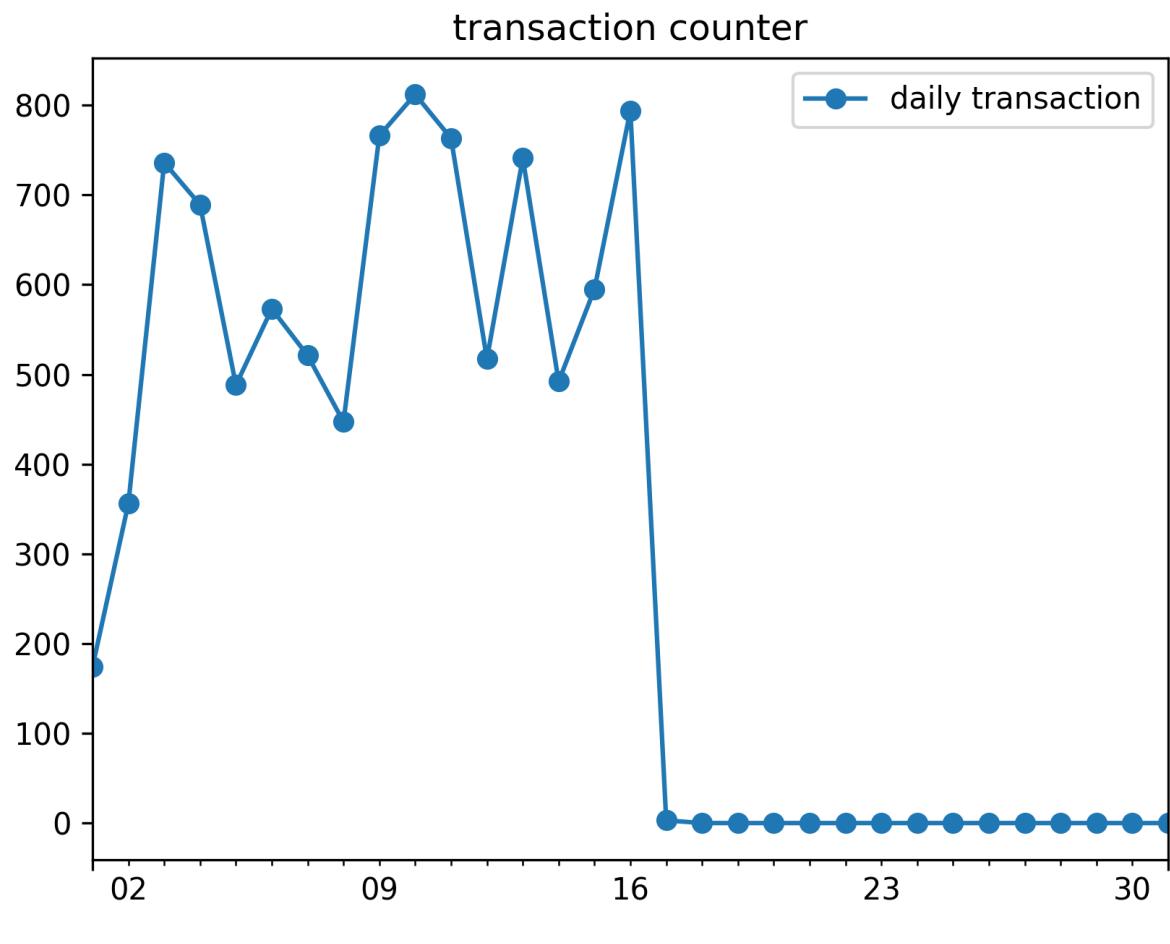


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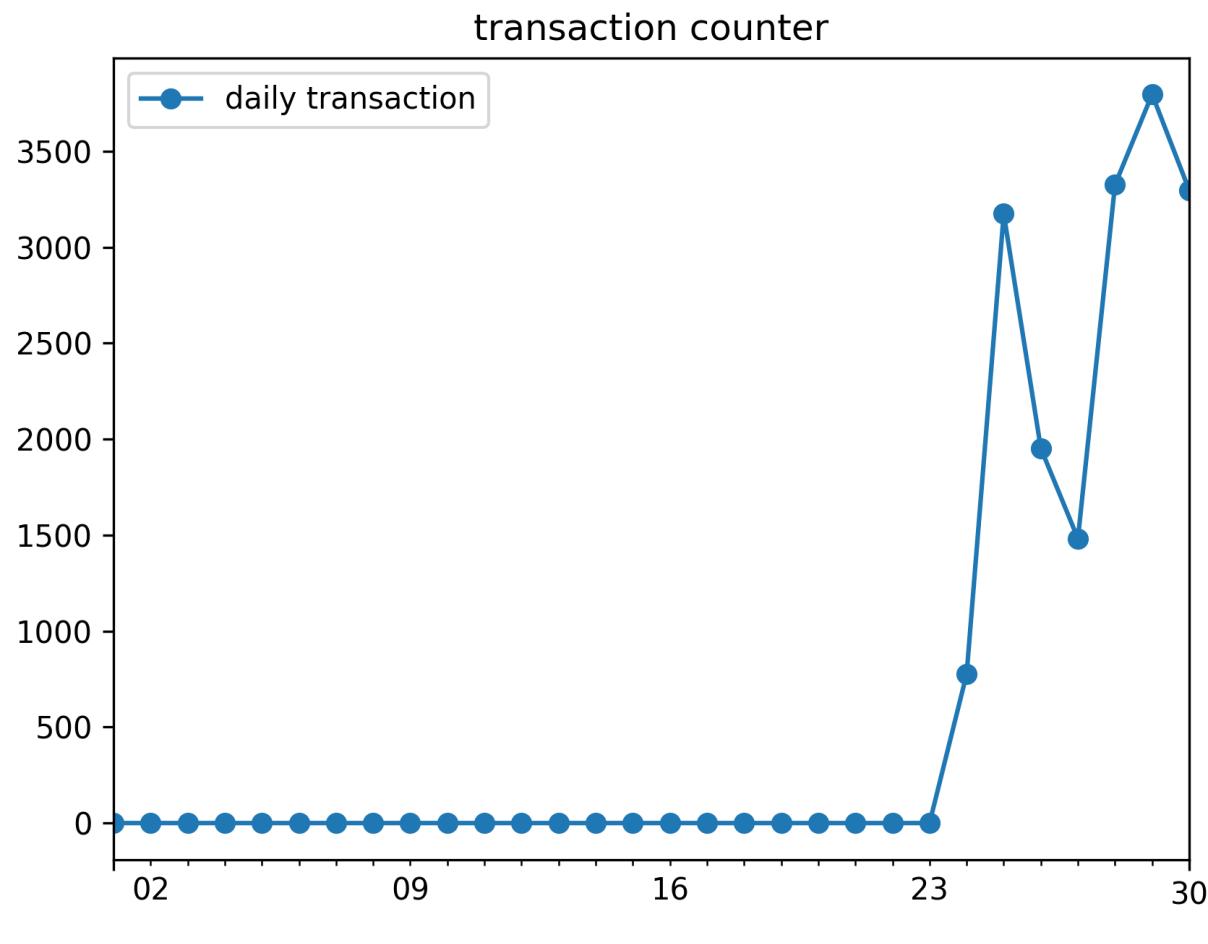
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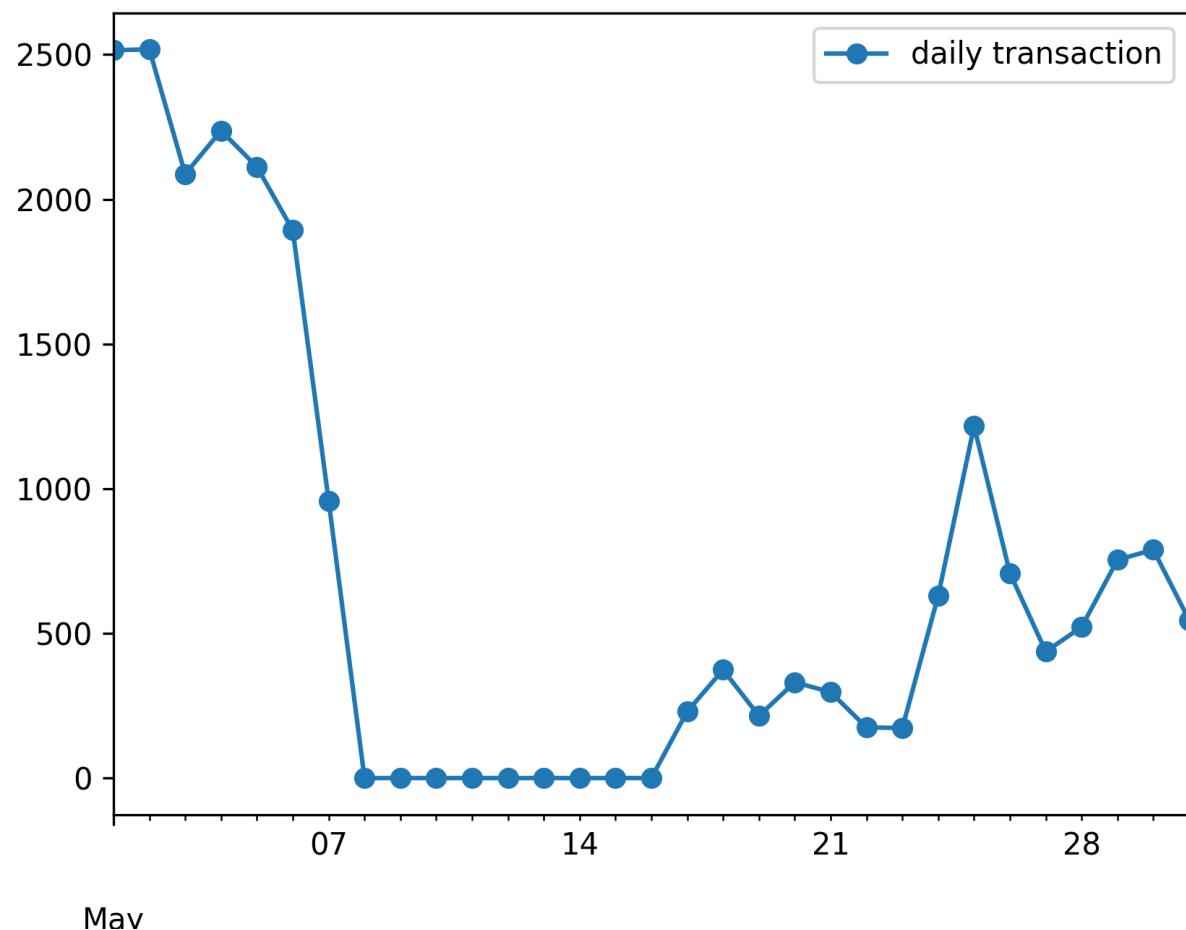
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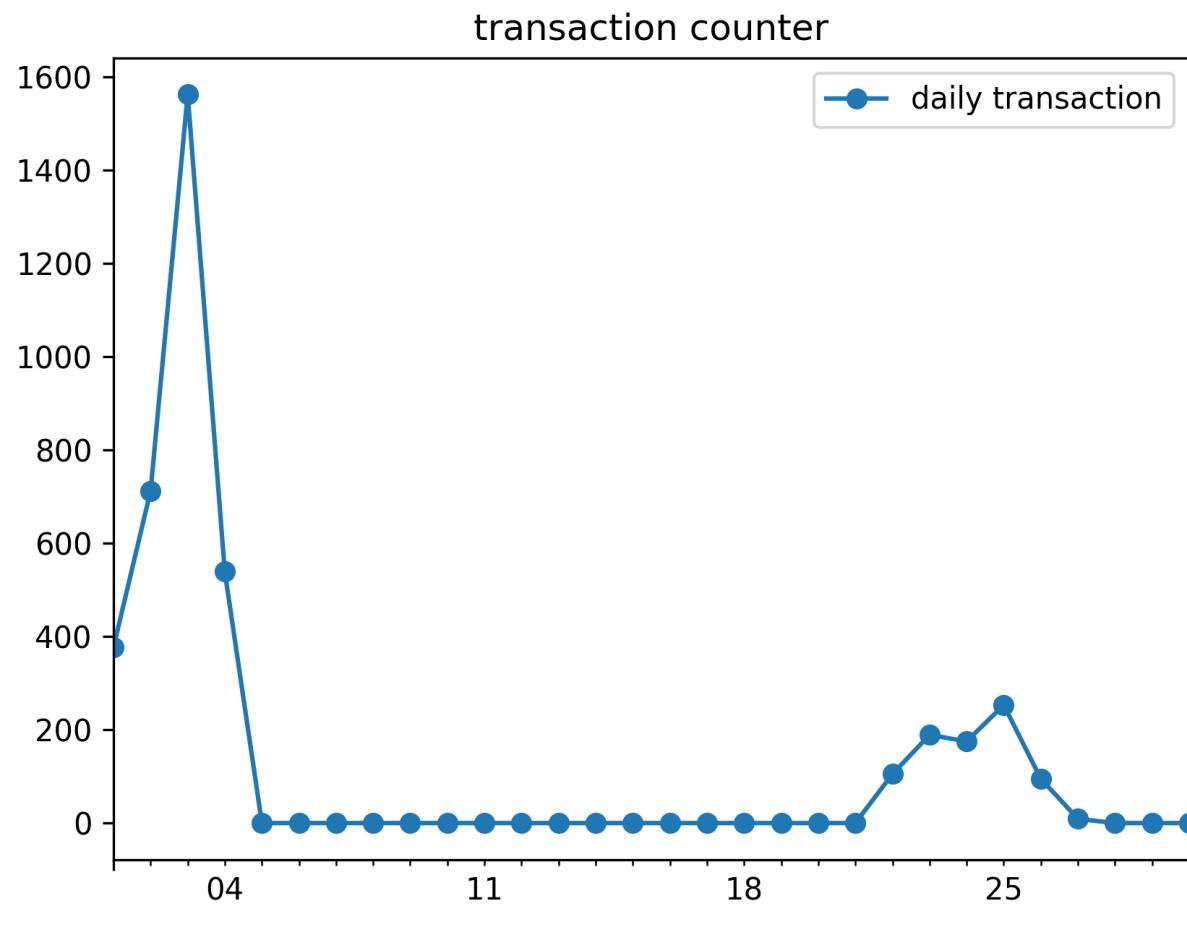
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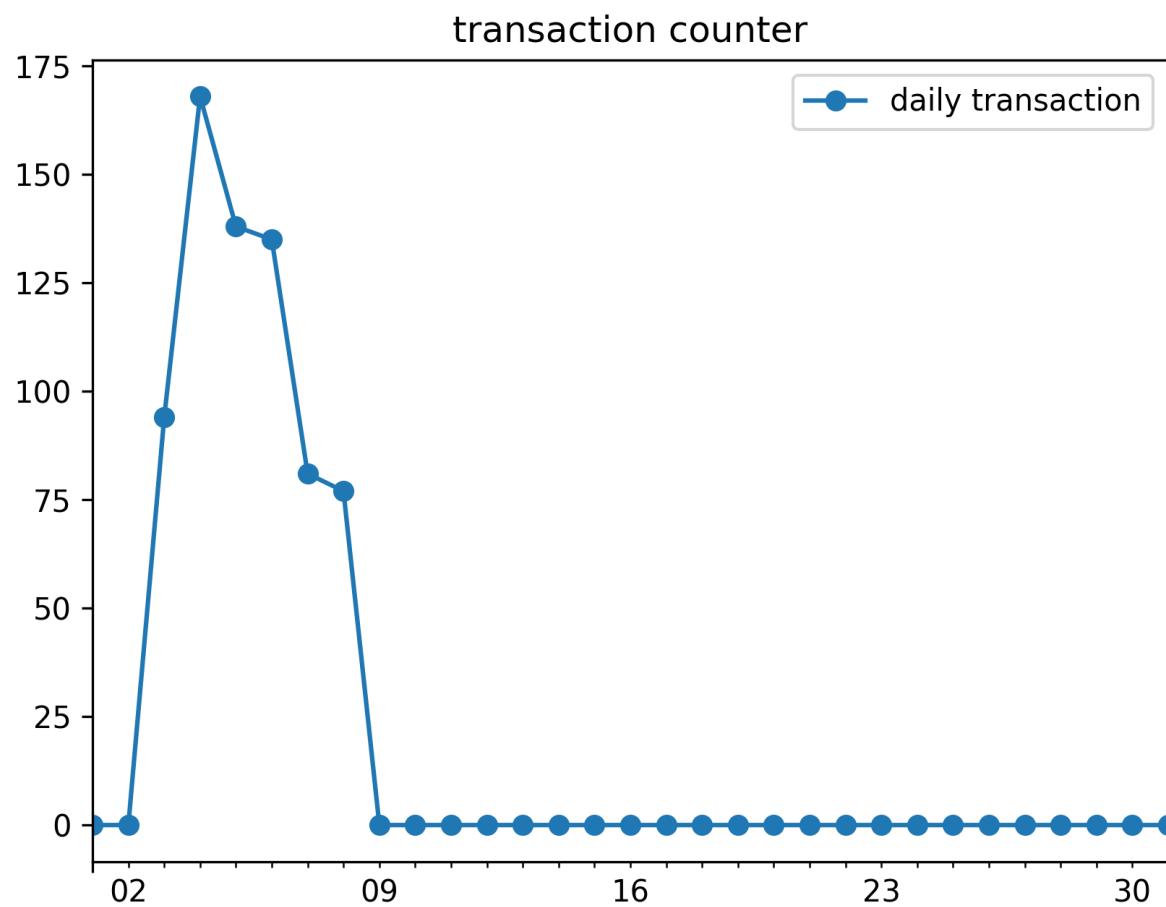
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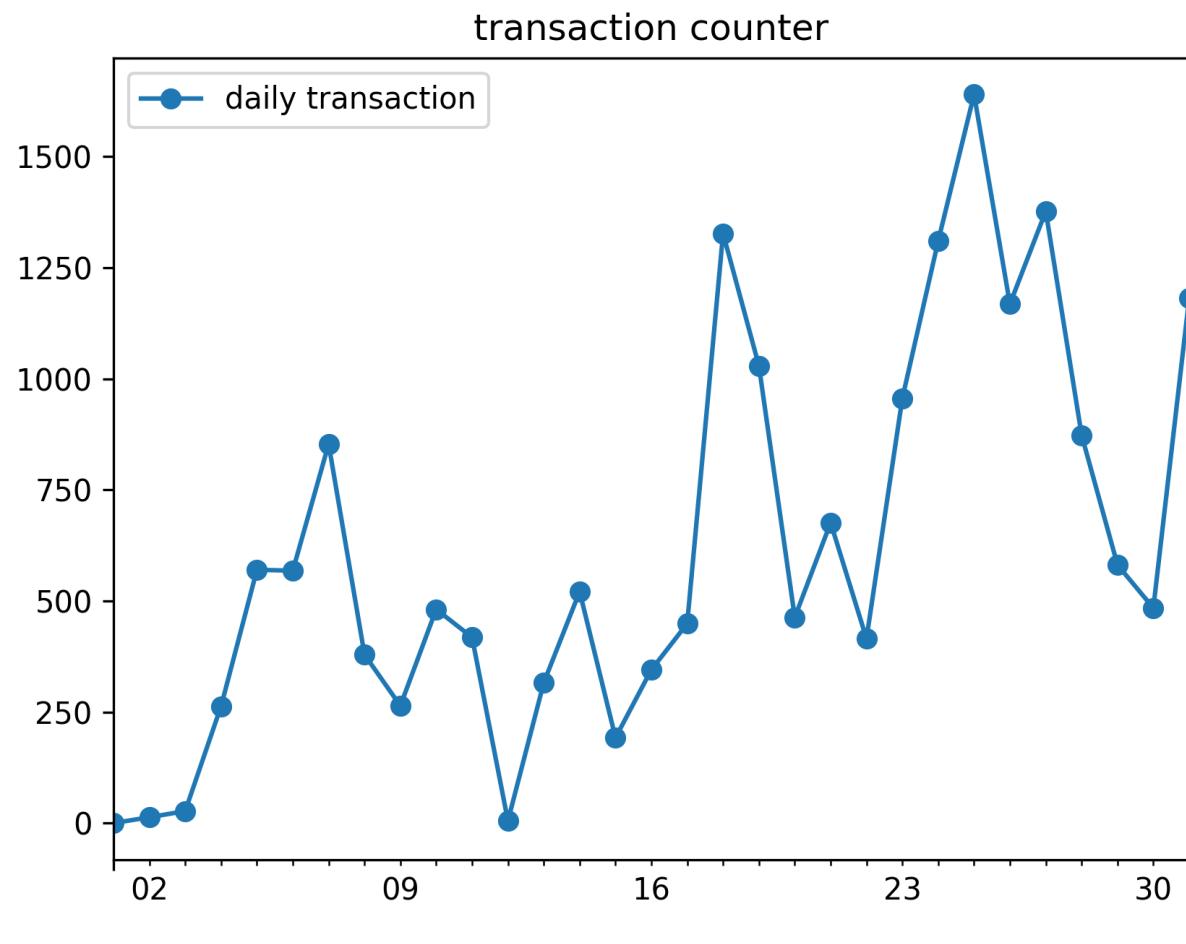
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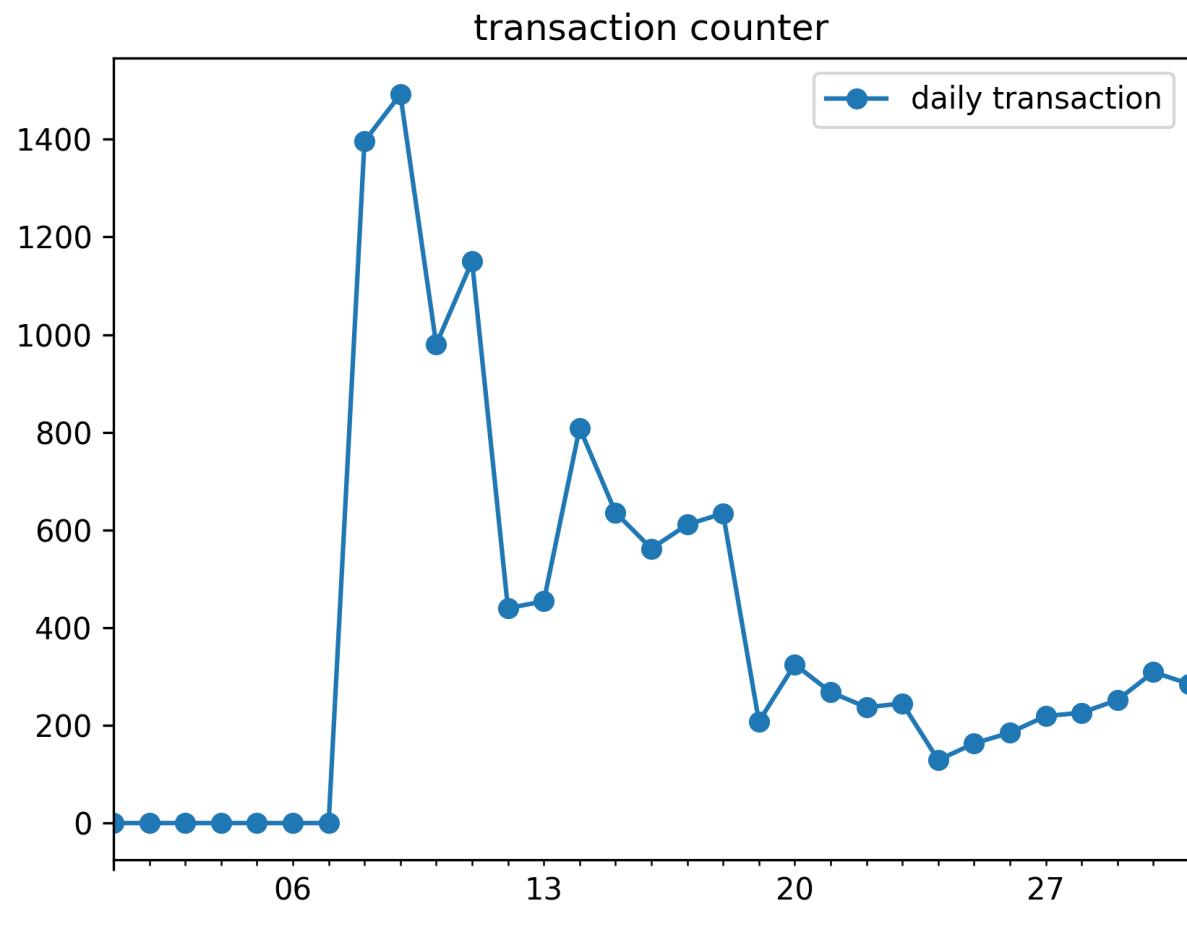
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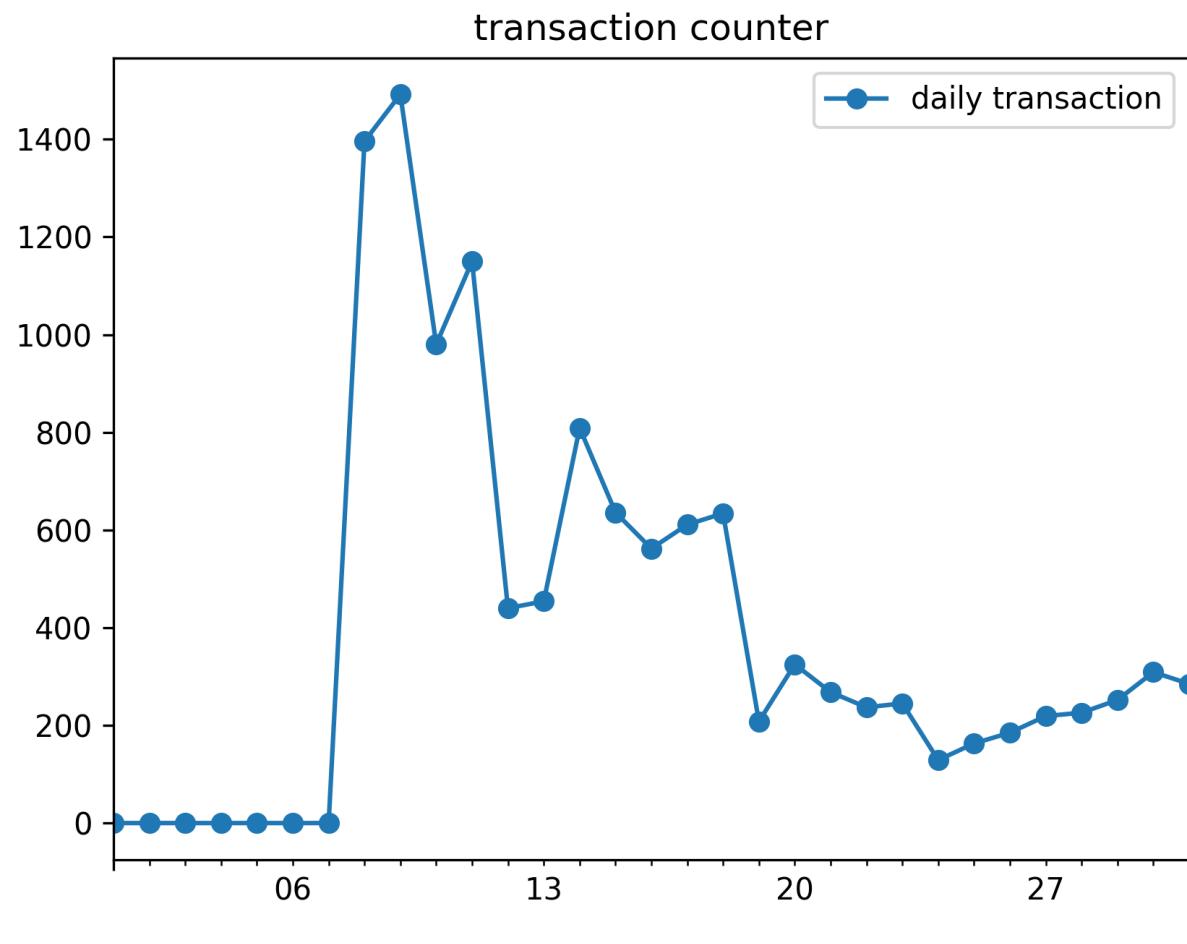
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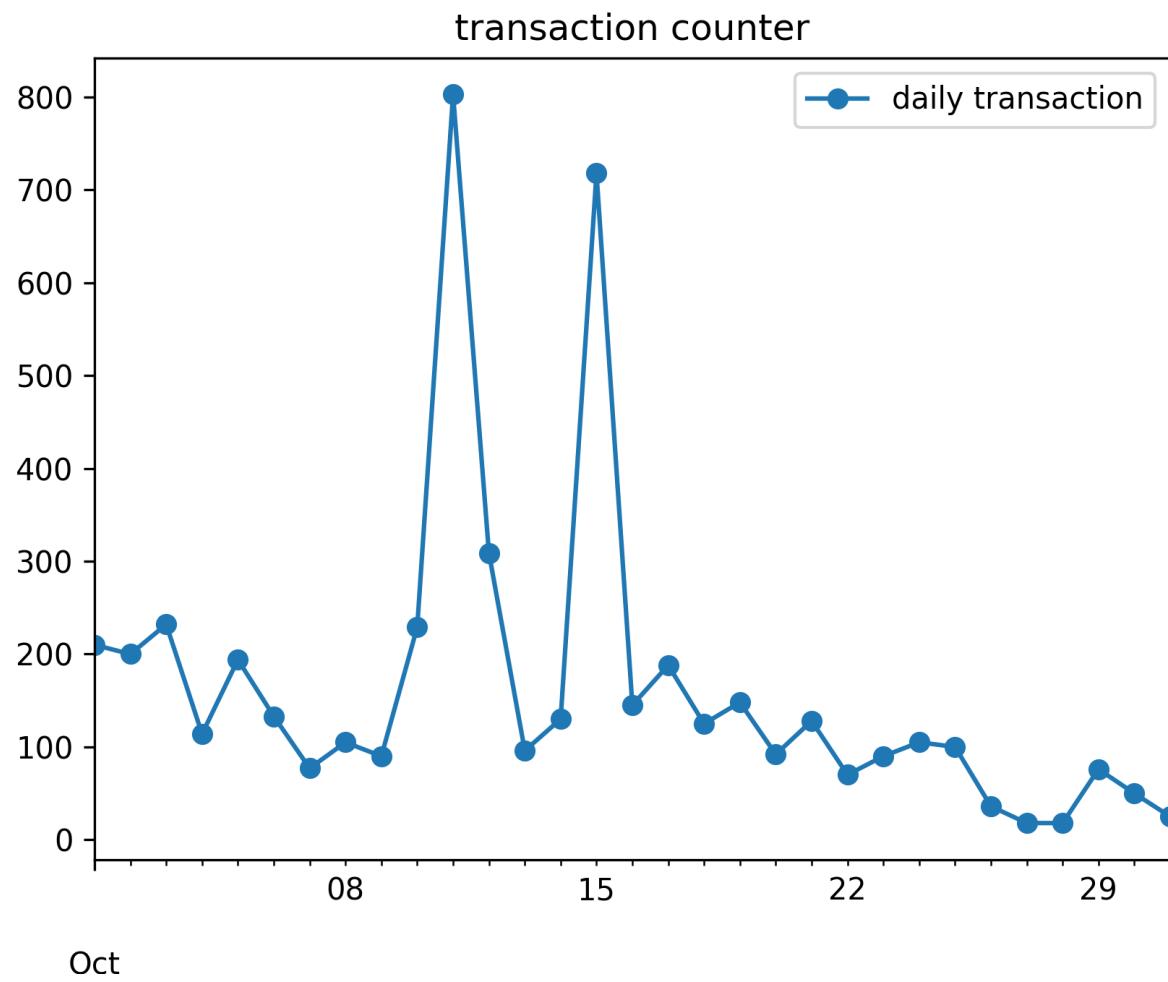
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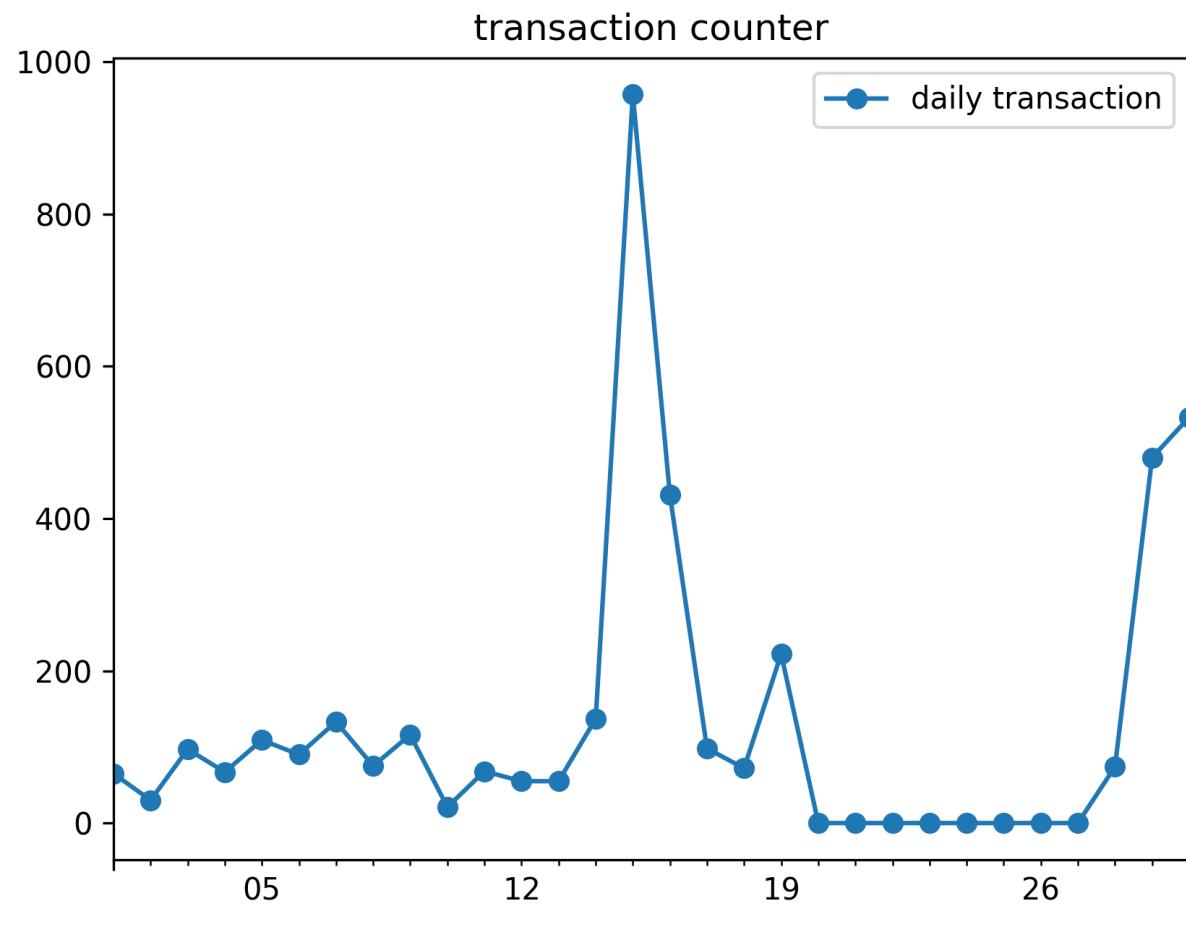
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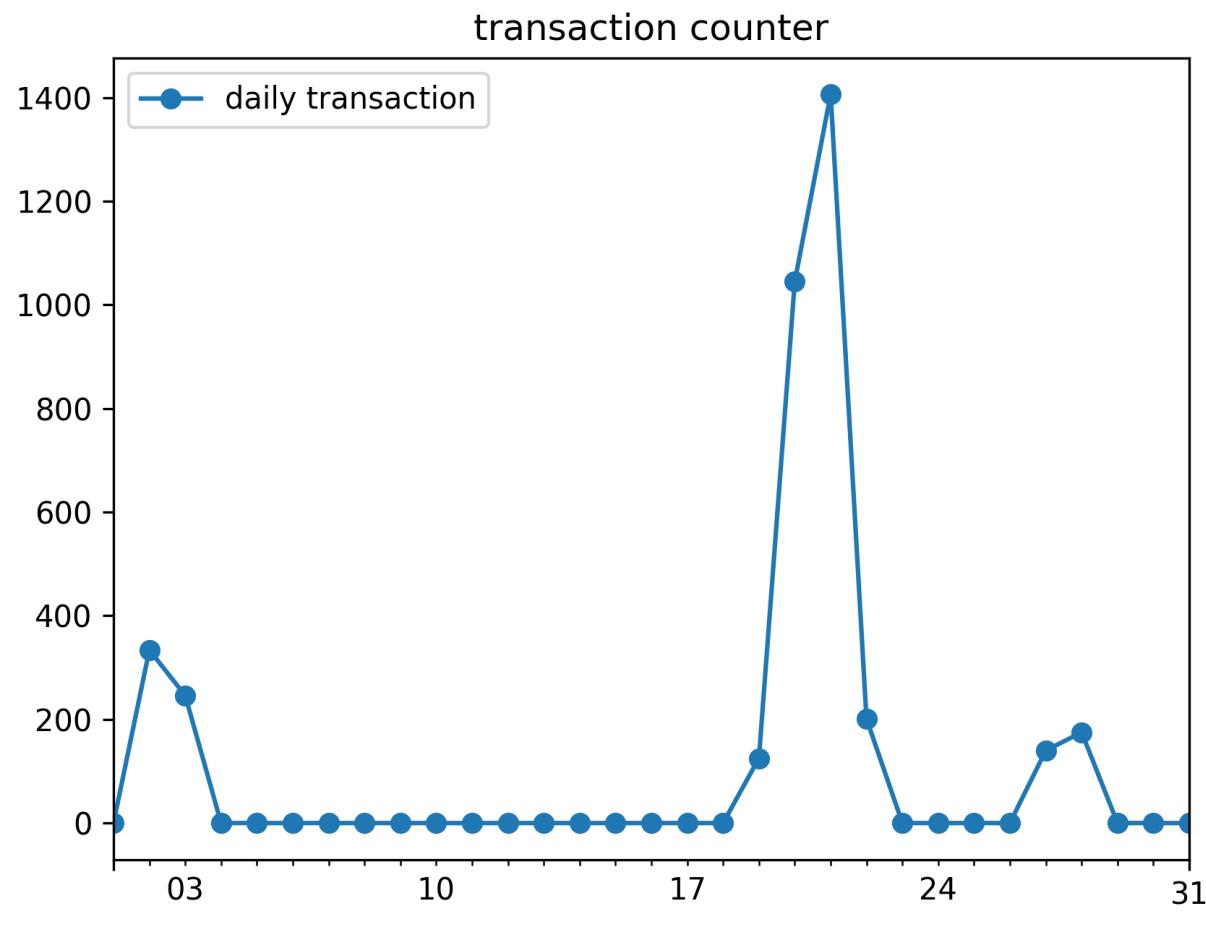
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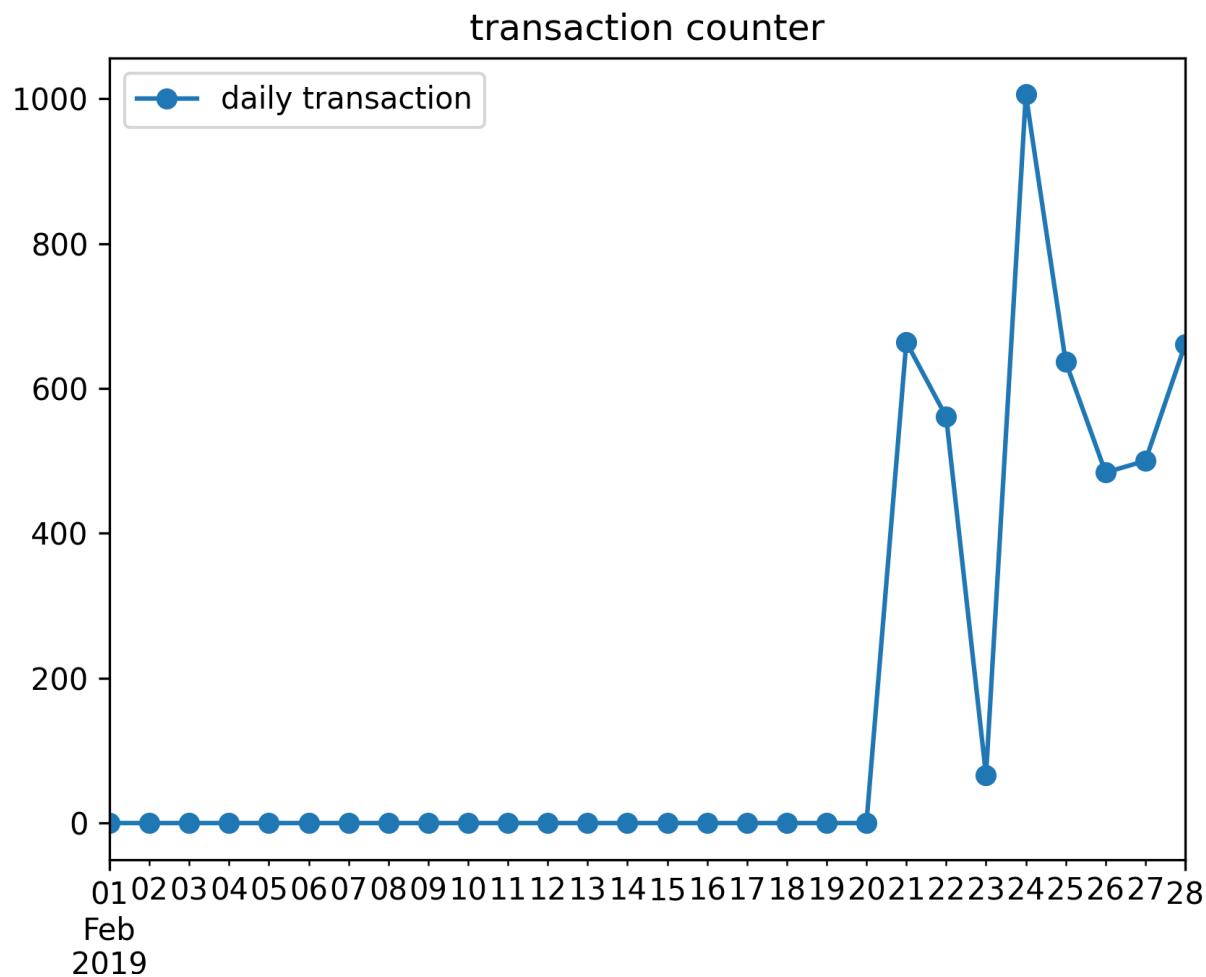
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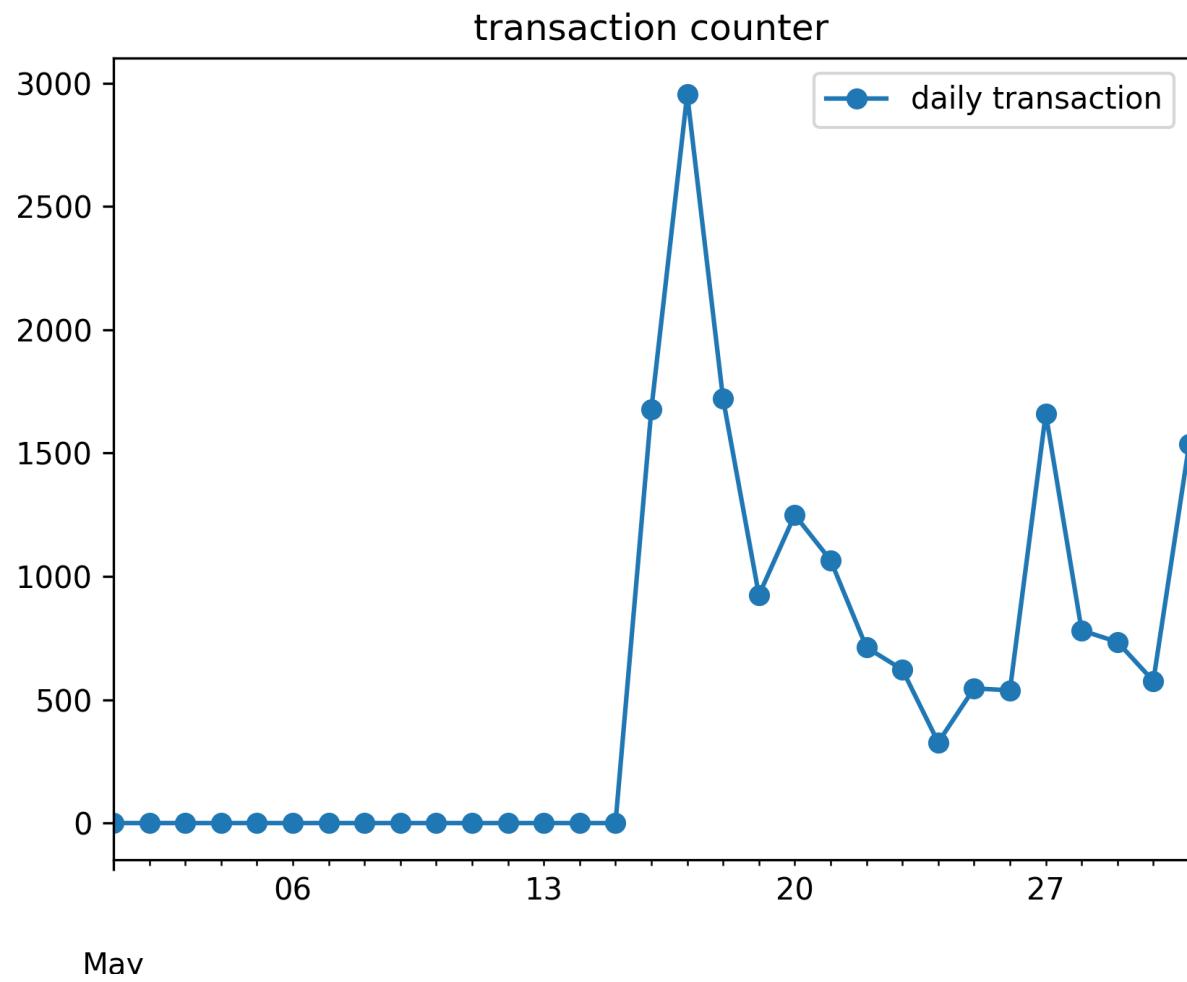


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upbit-2019-02-btc-transaction\_counter.png

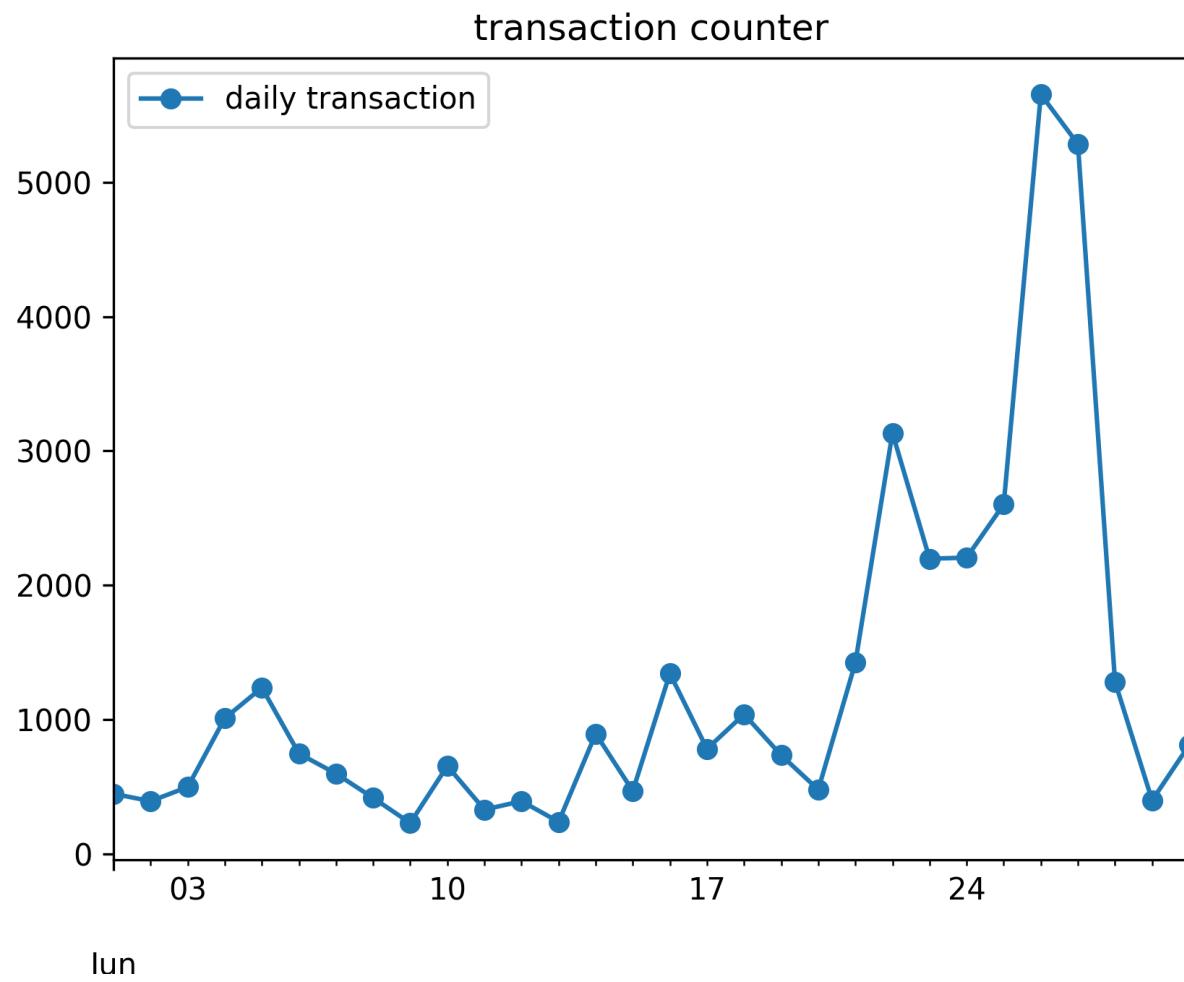


upbit-2019-05-btc-transaction\_counter.png



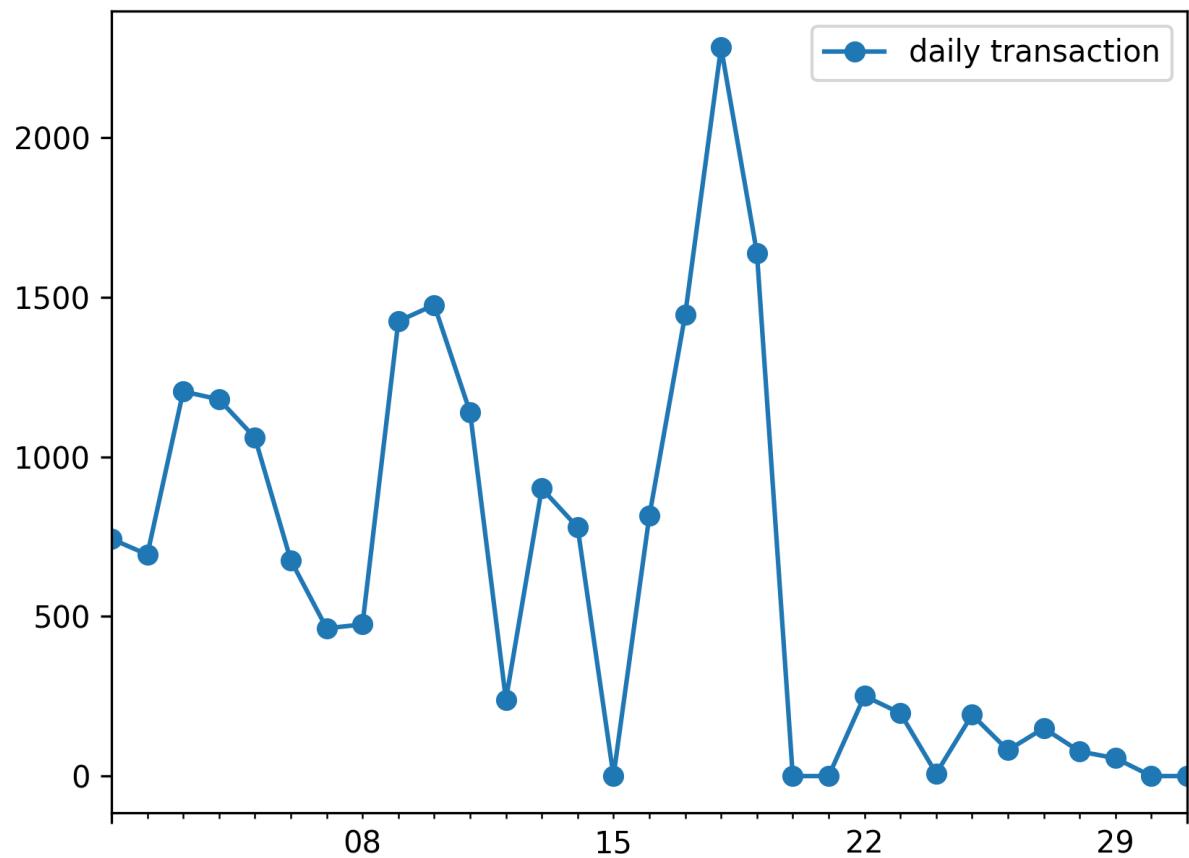
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upbit-2019-06-btc-transaction\_counter.png



upbit-2019-07-btc-transaction\_counter.png

transaction counter

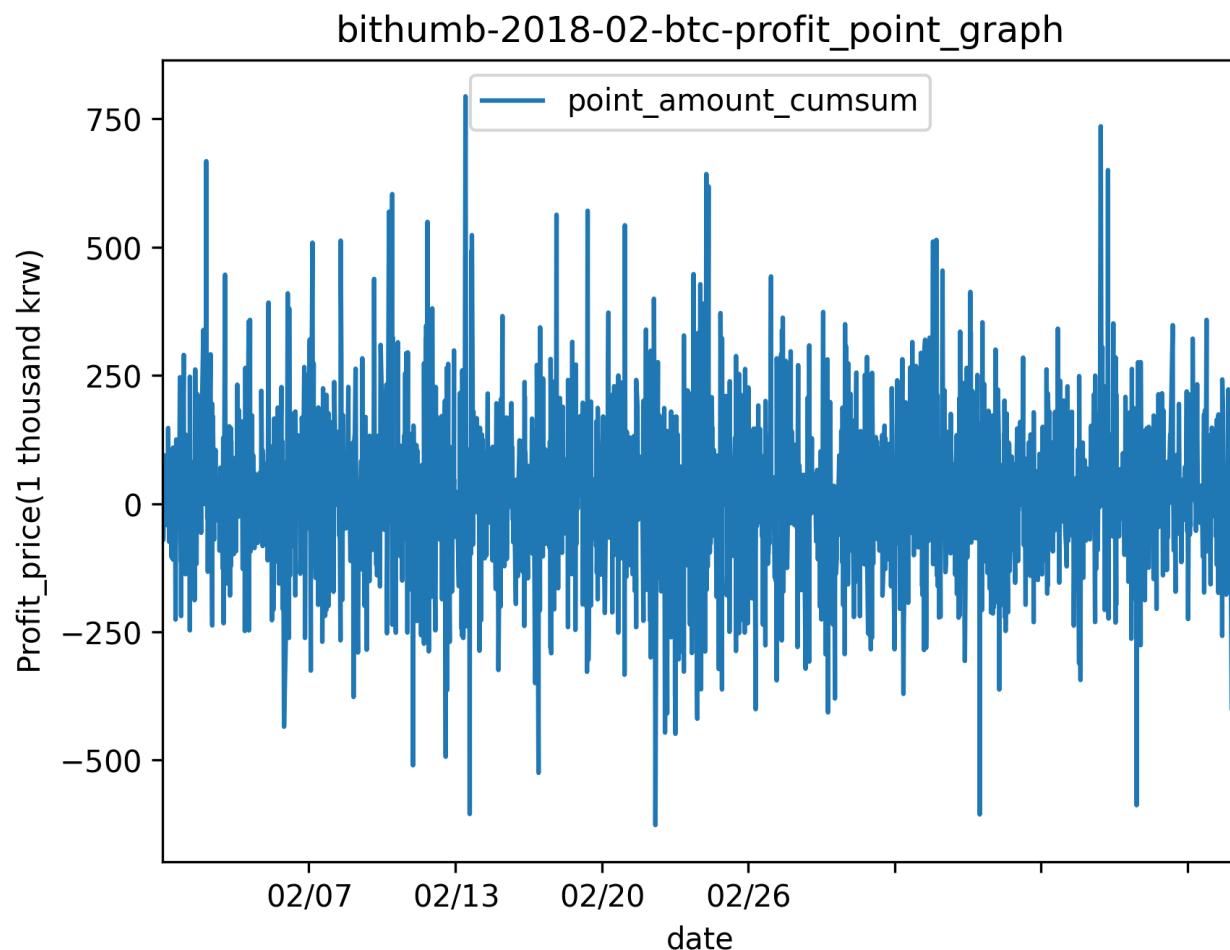


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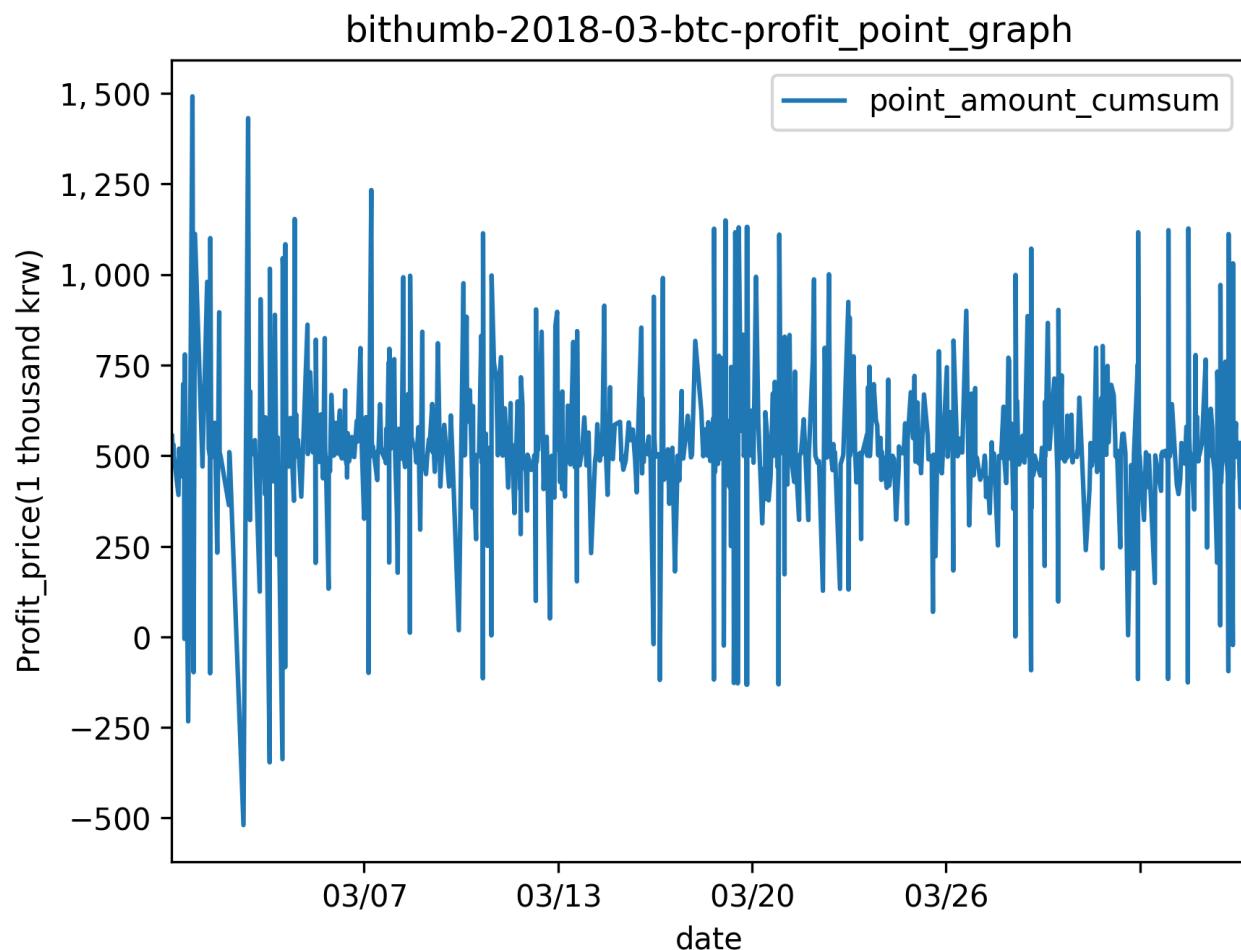
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달별 잔여 코인개수가 0이 되는 지점 간의 profit 차이 그래프

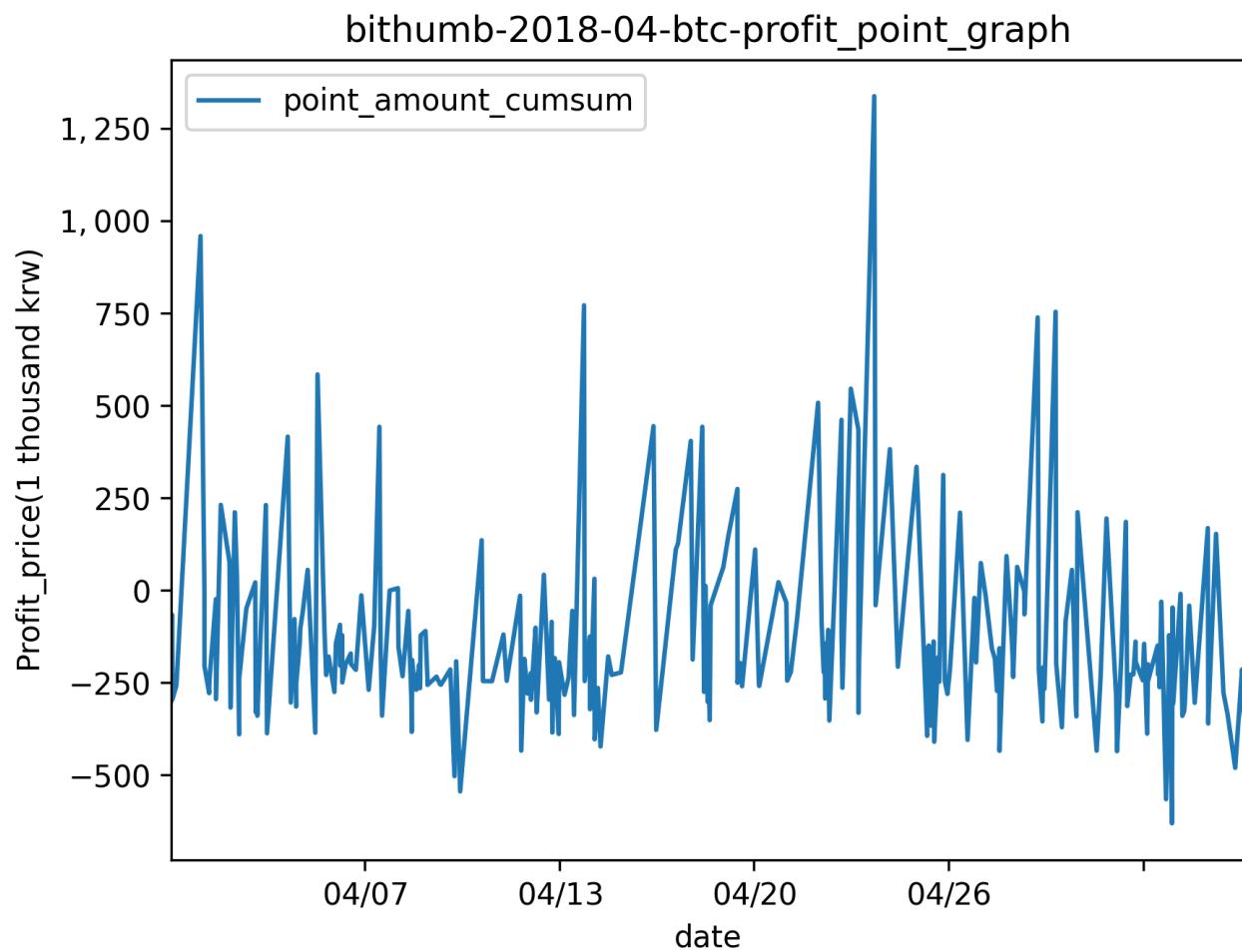
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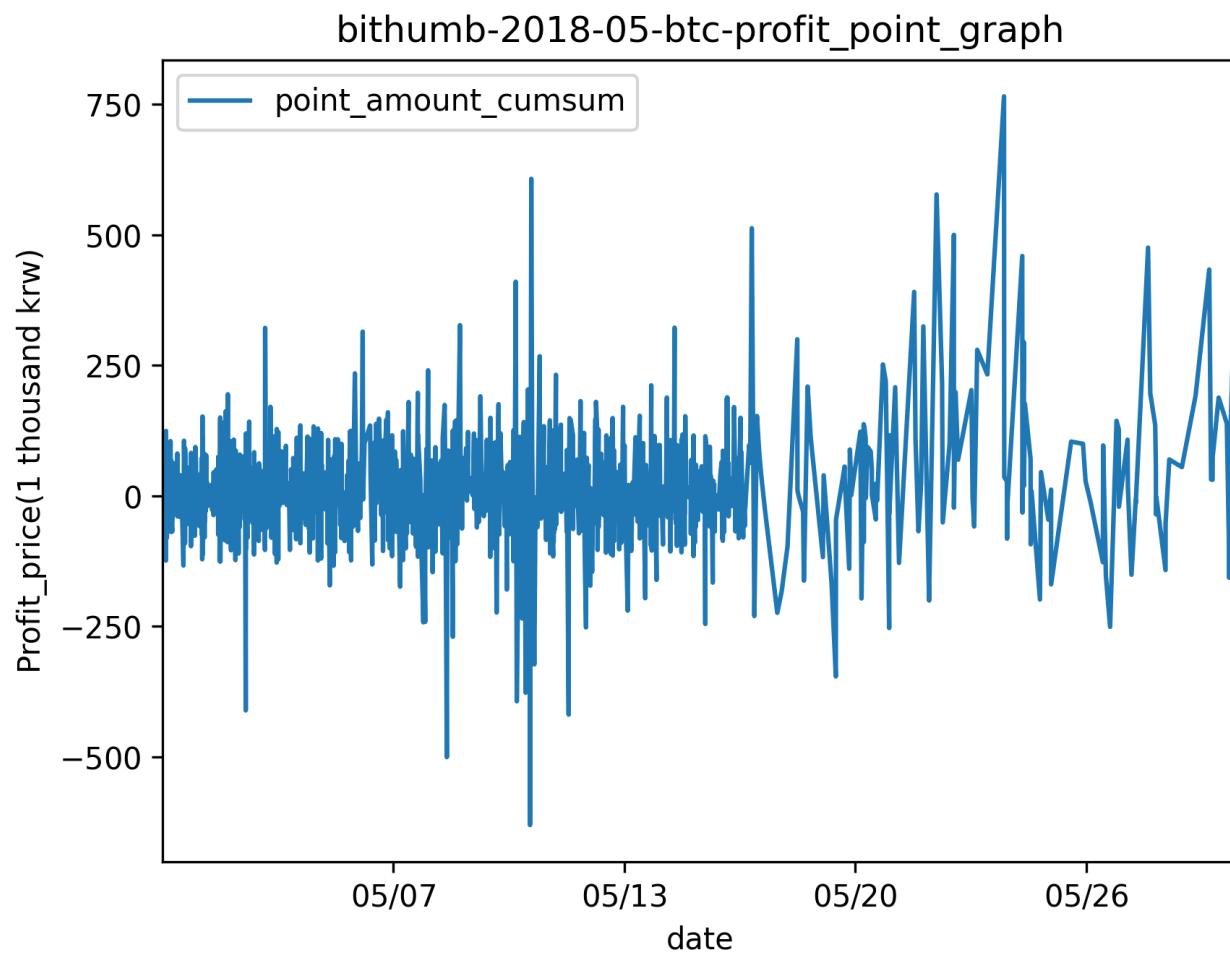
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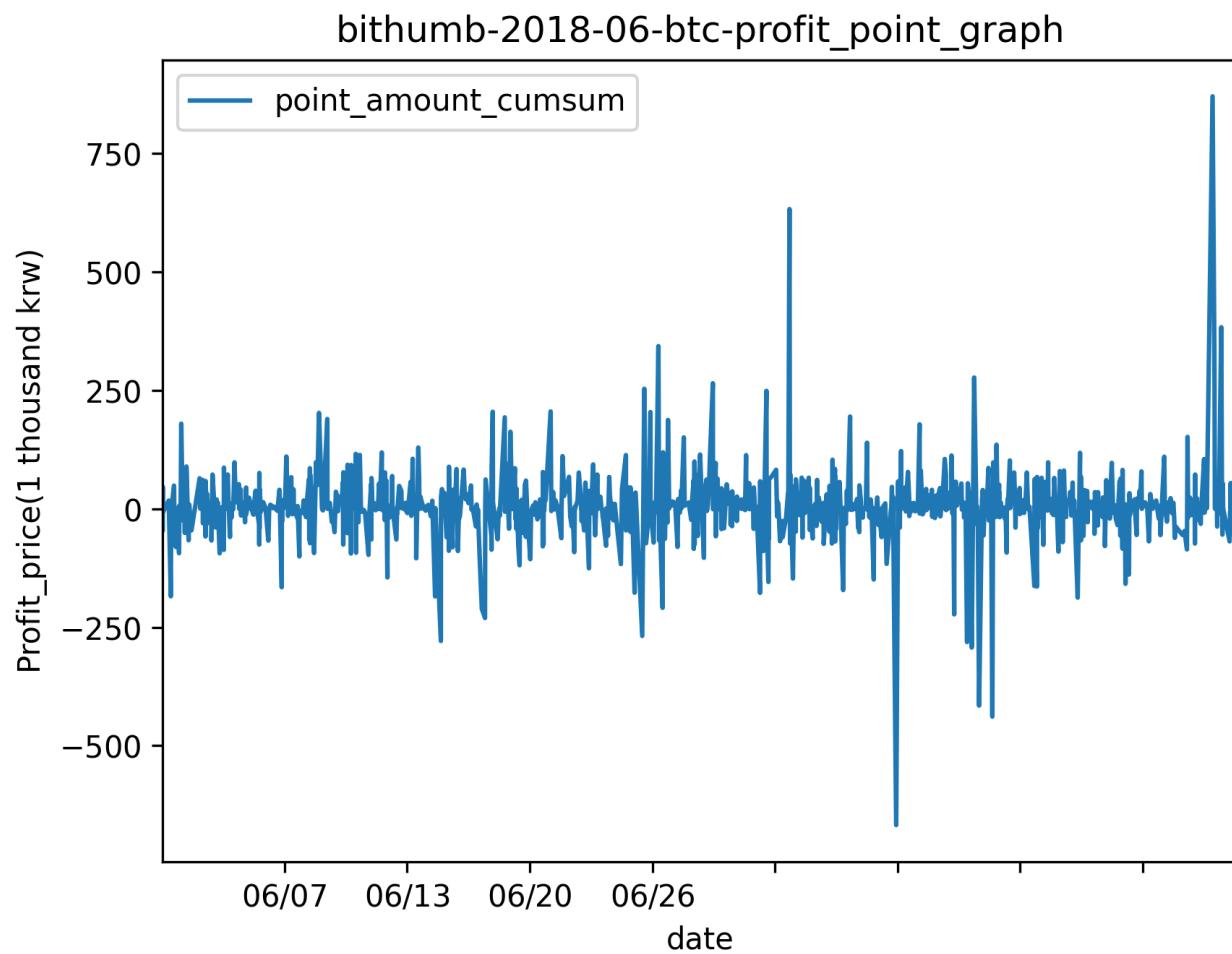
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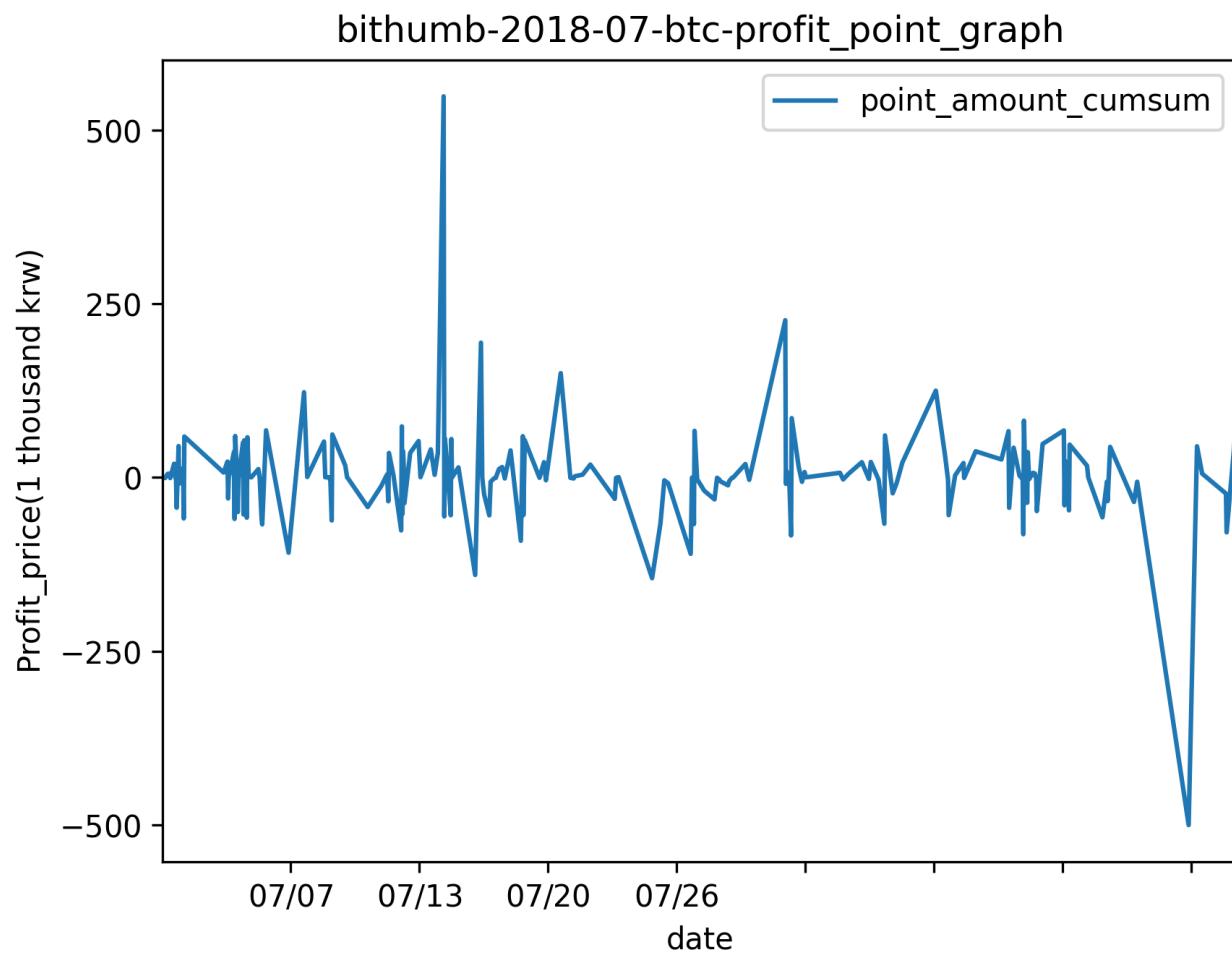
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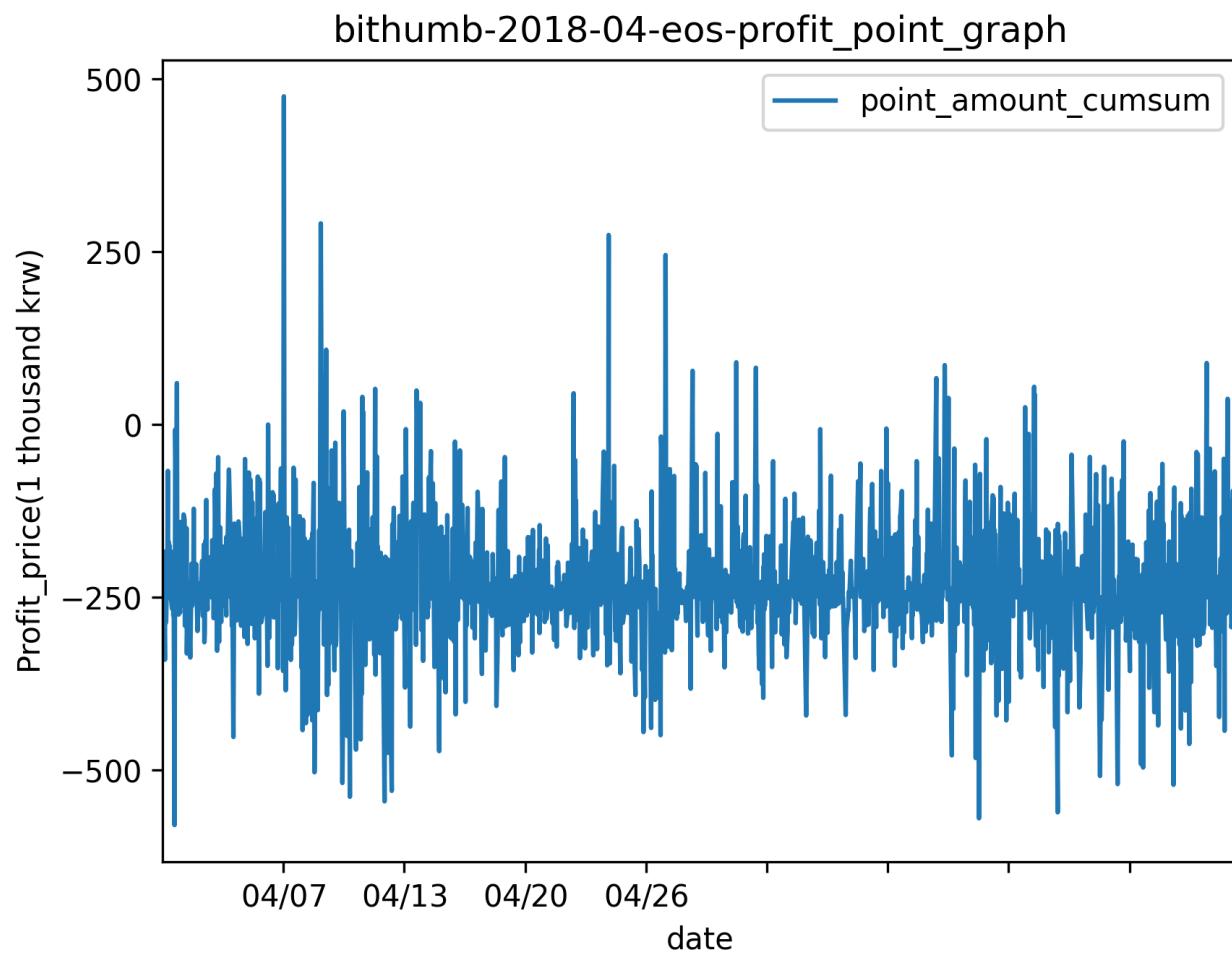
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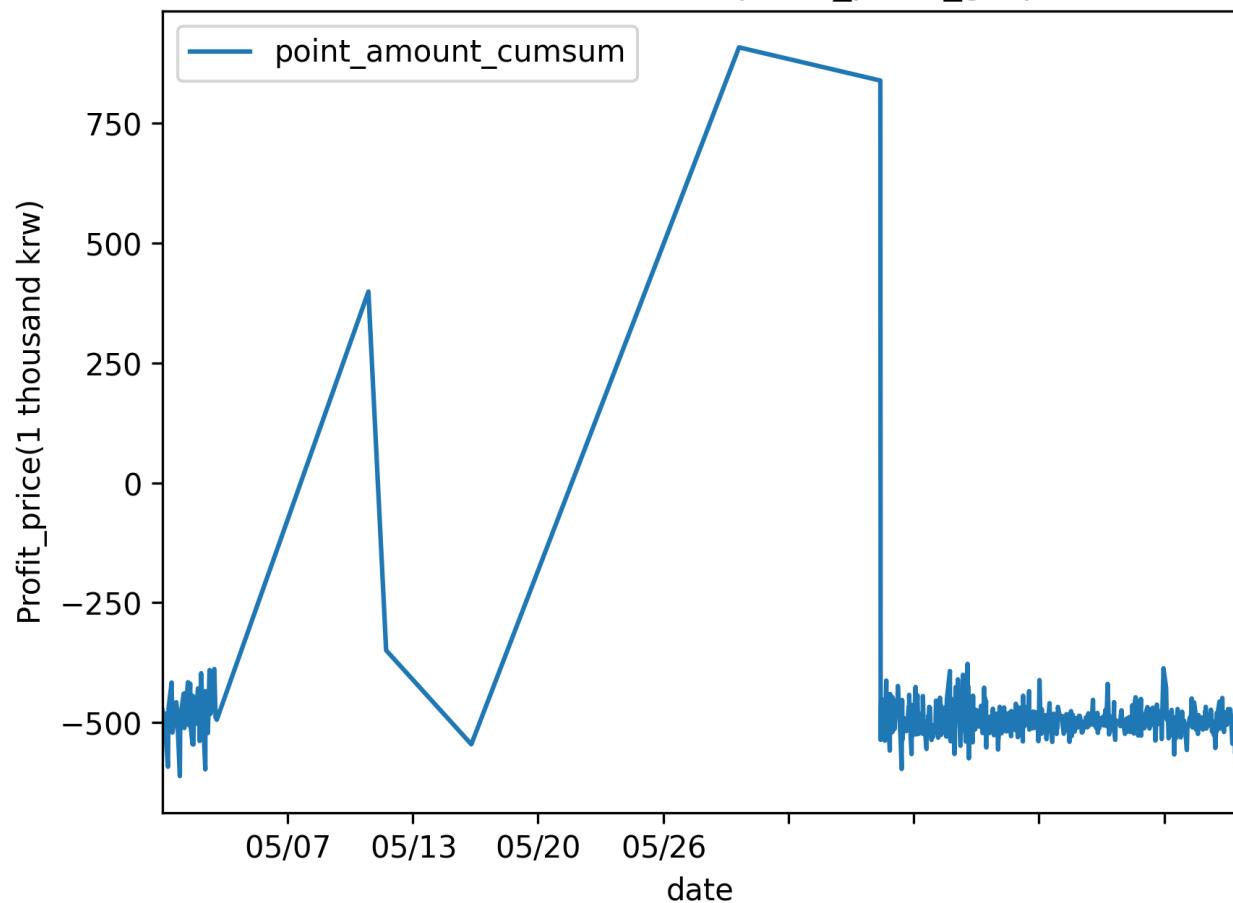


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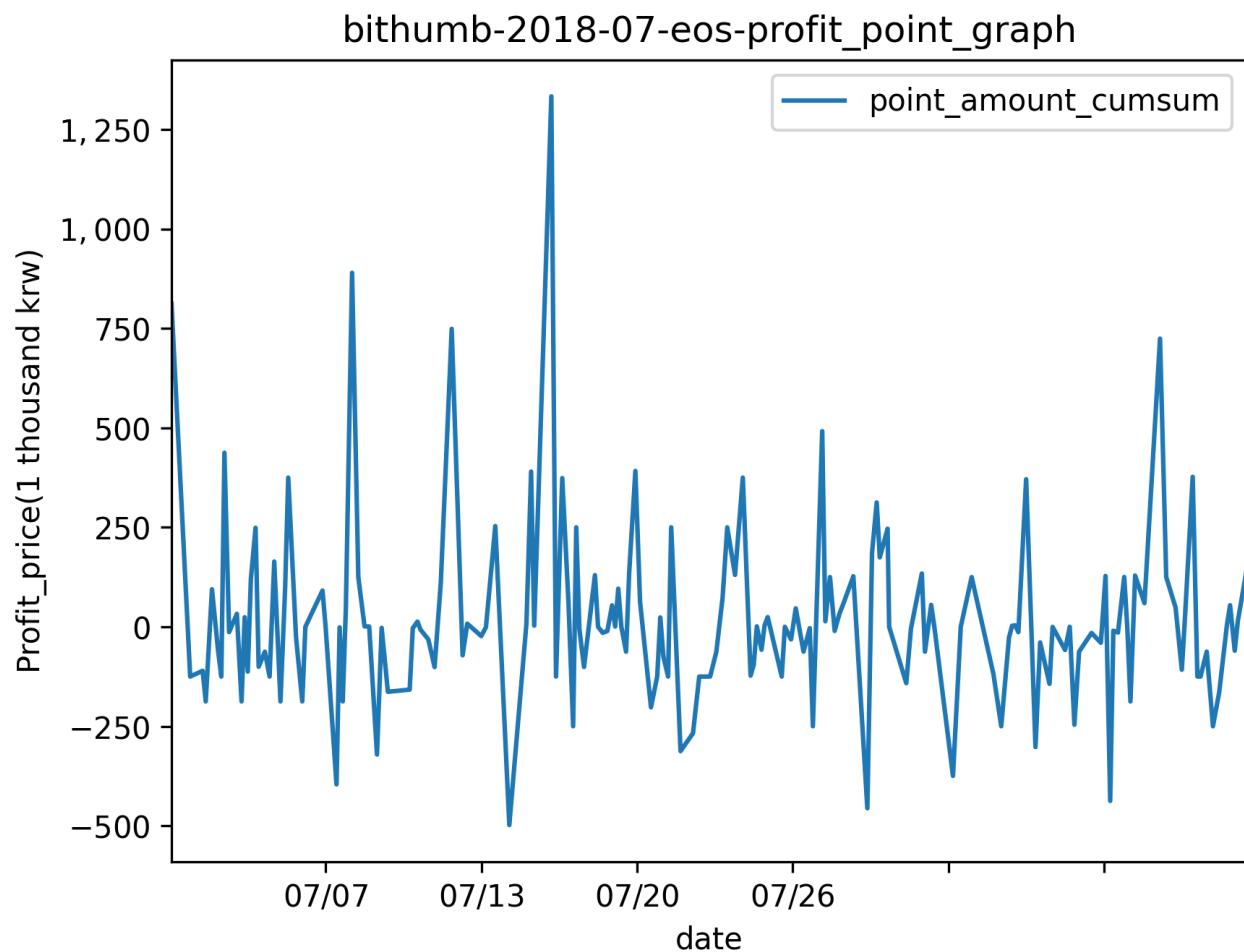


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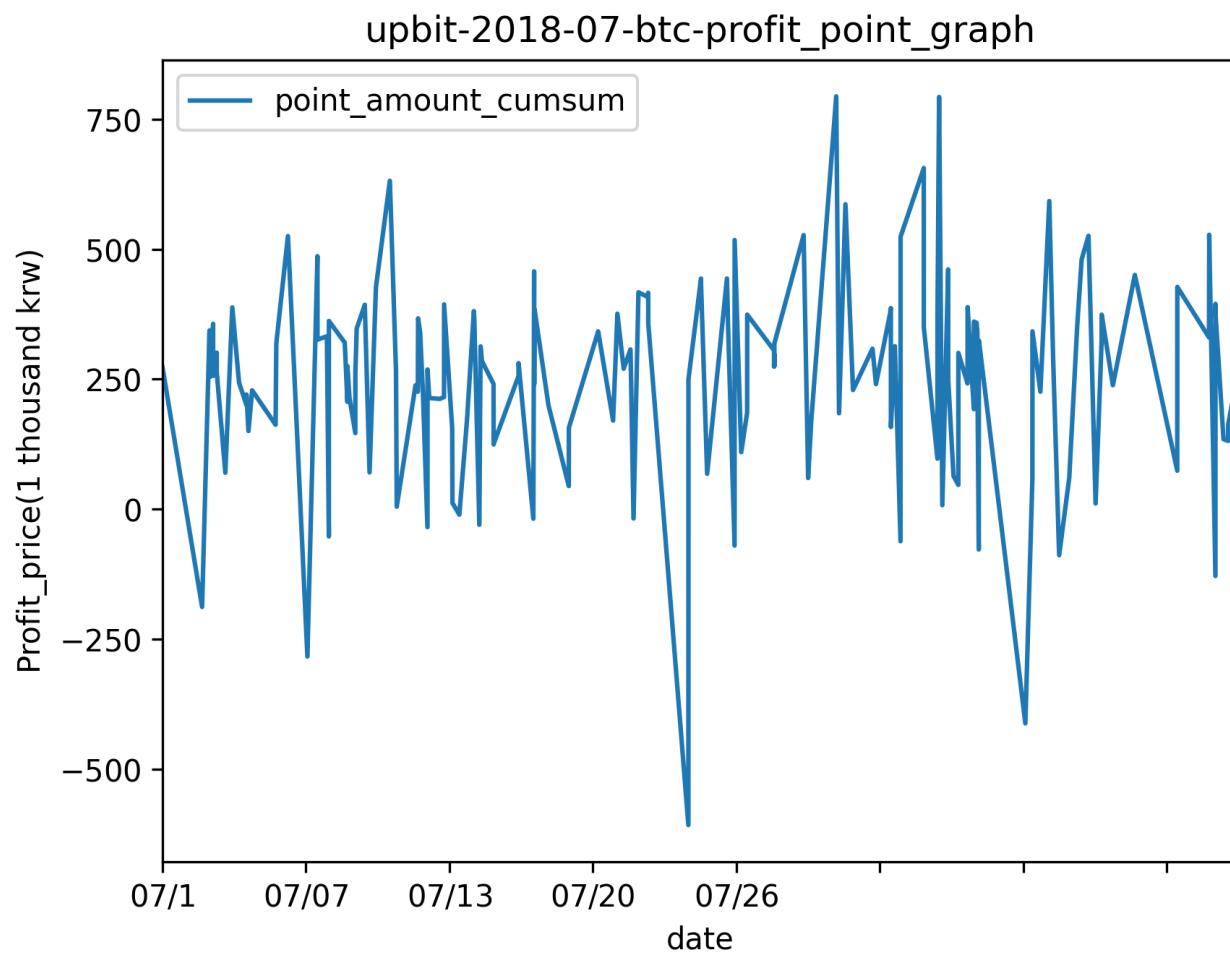
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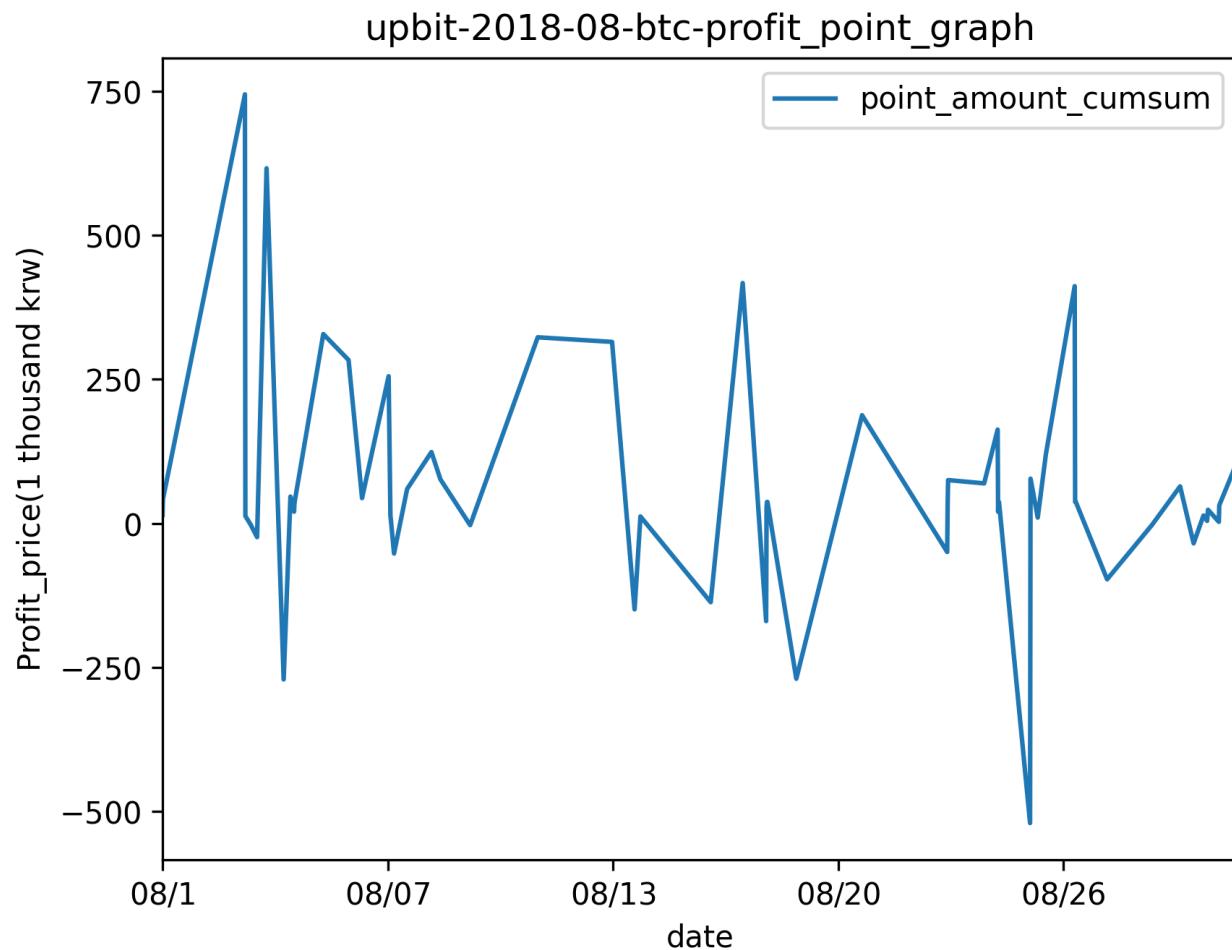
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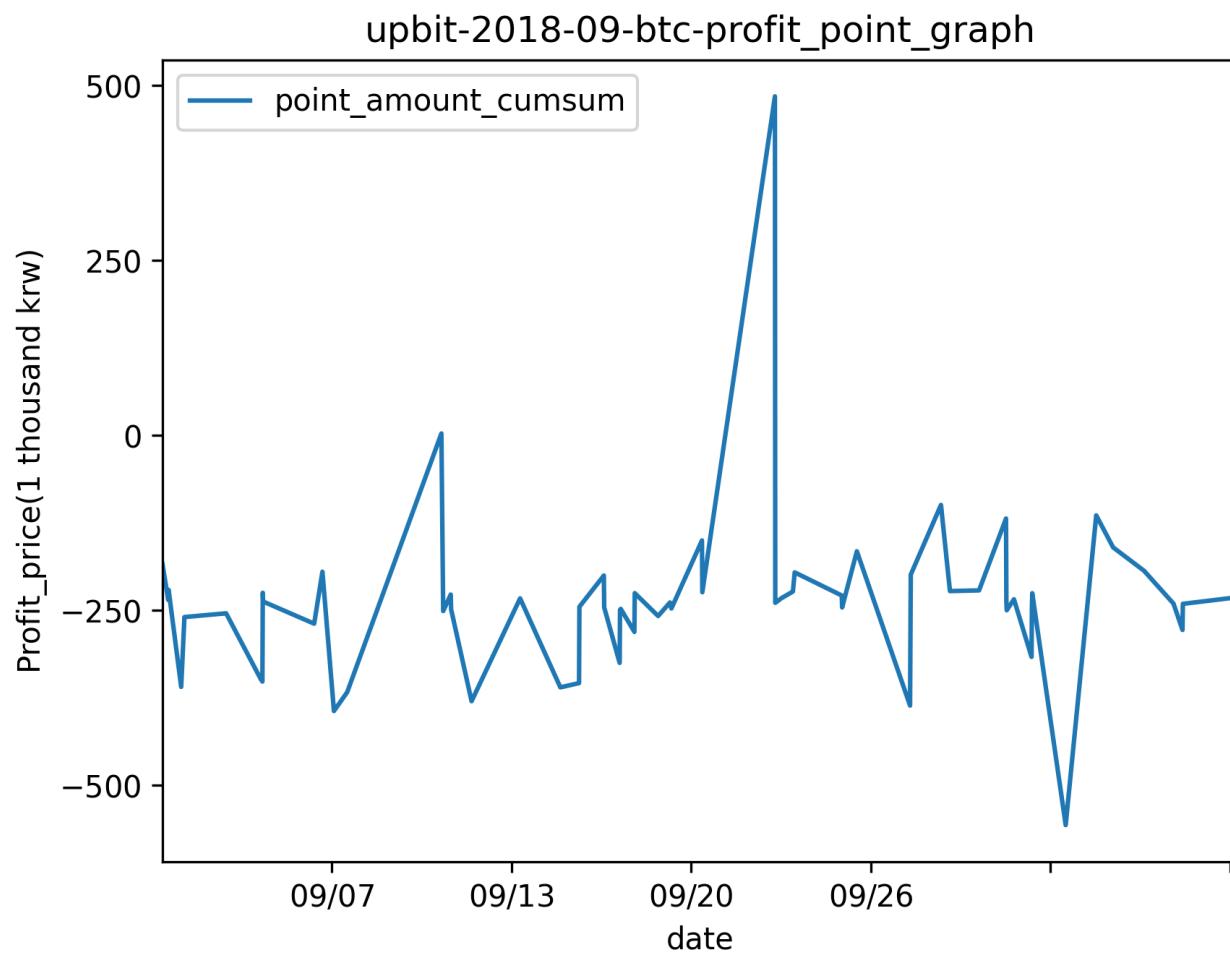
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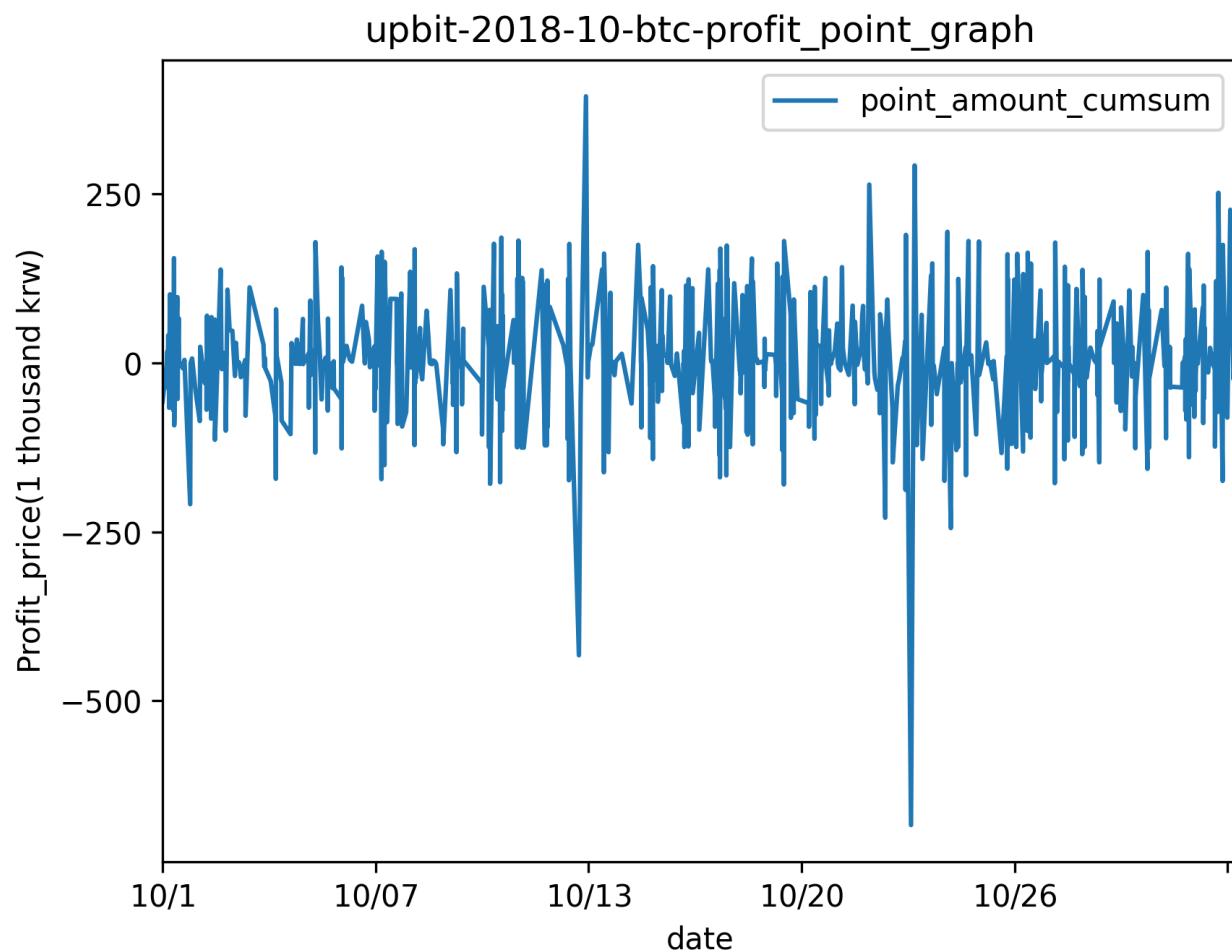
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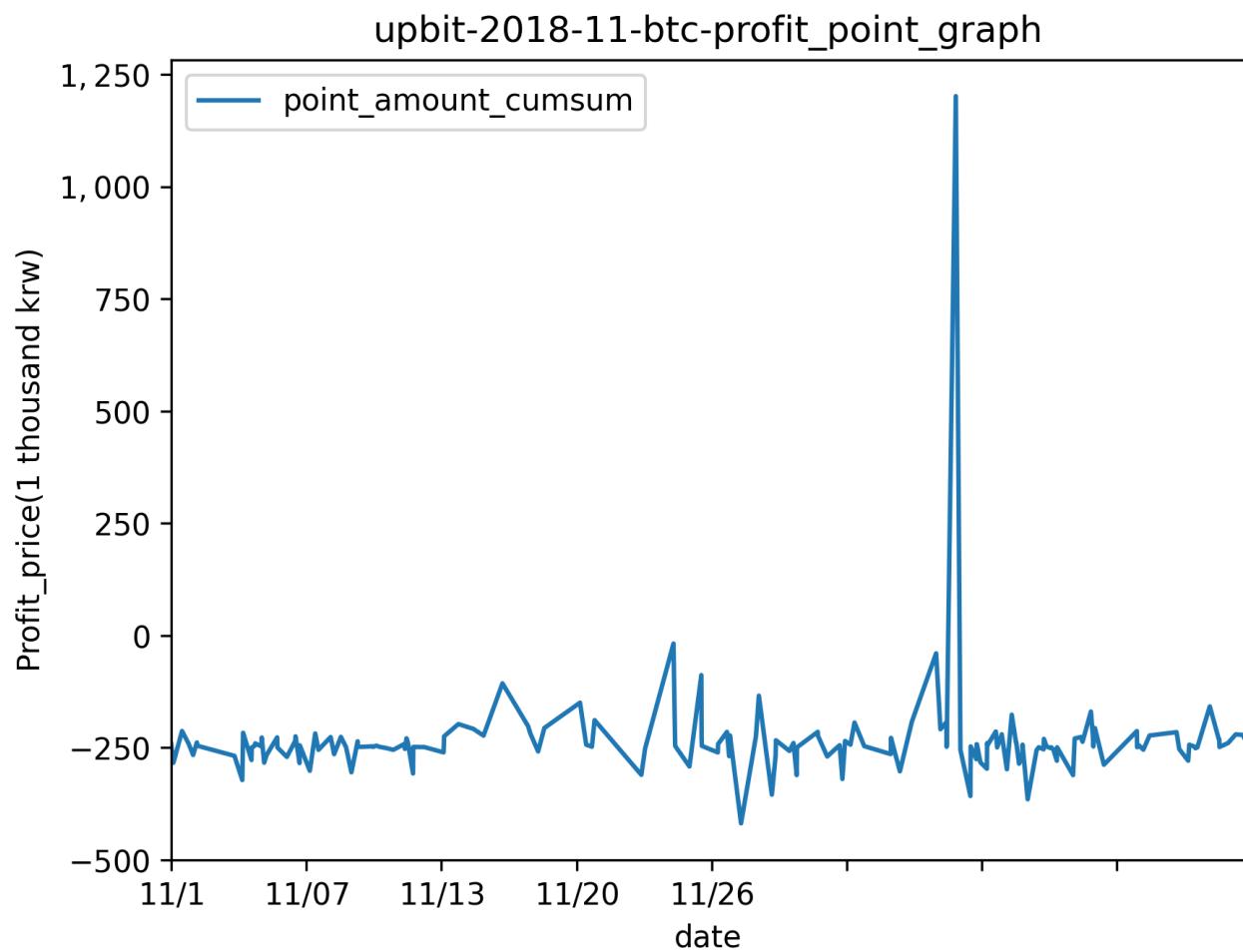
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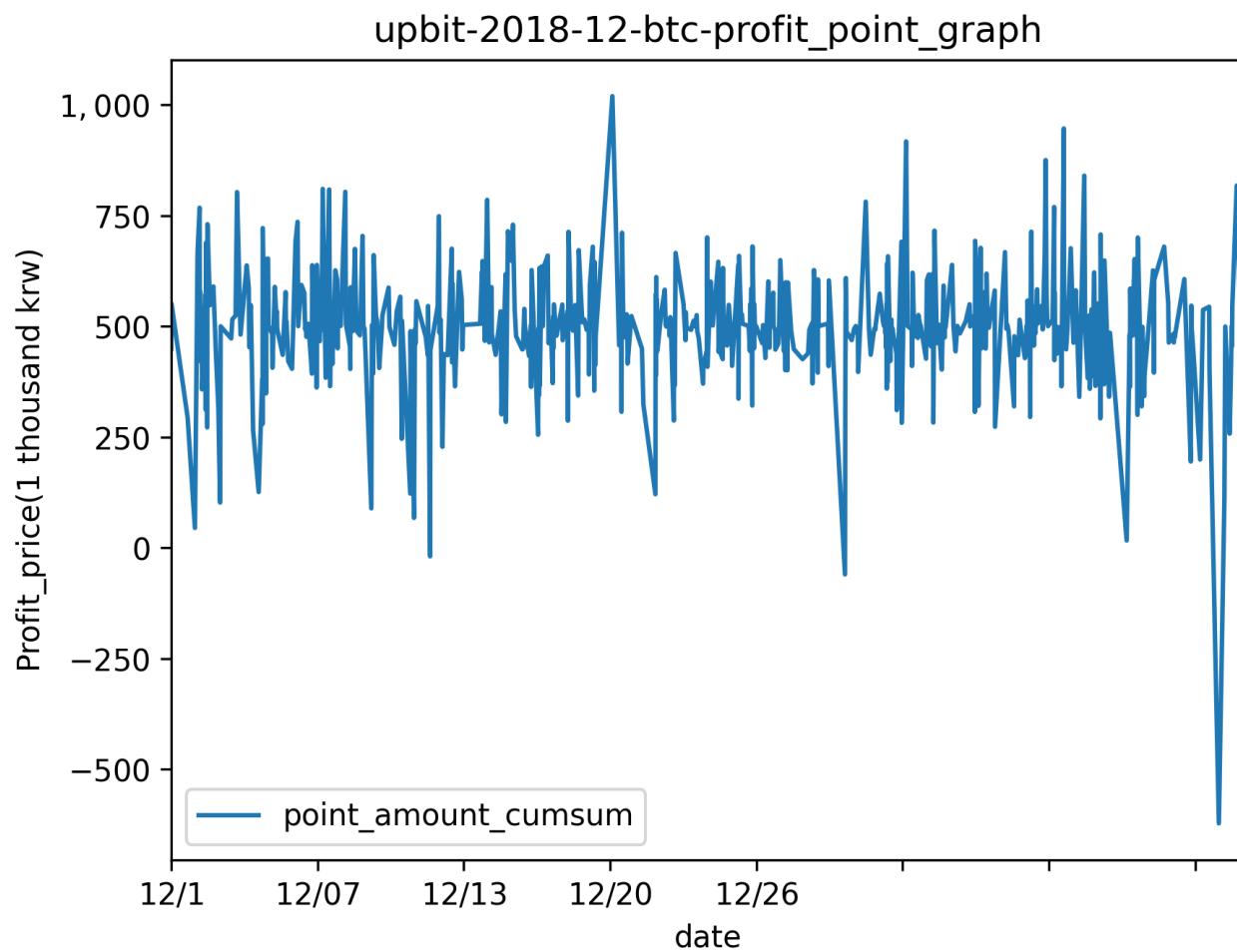
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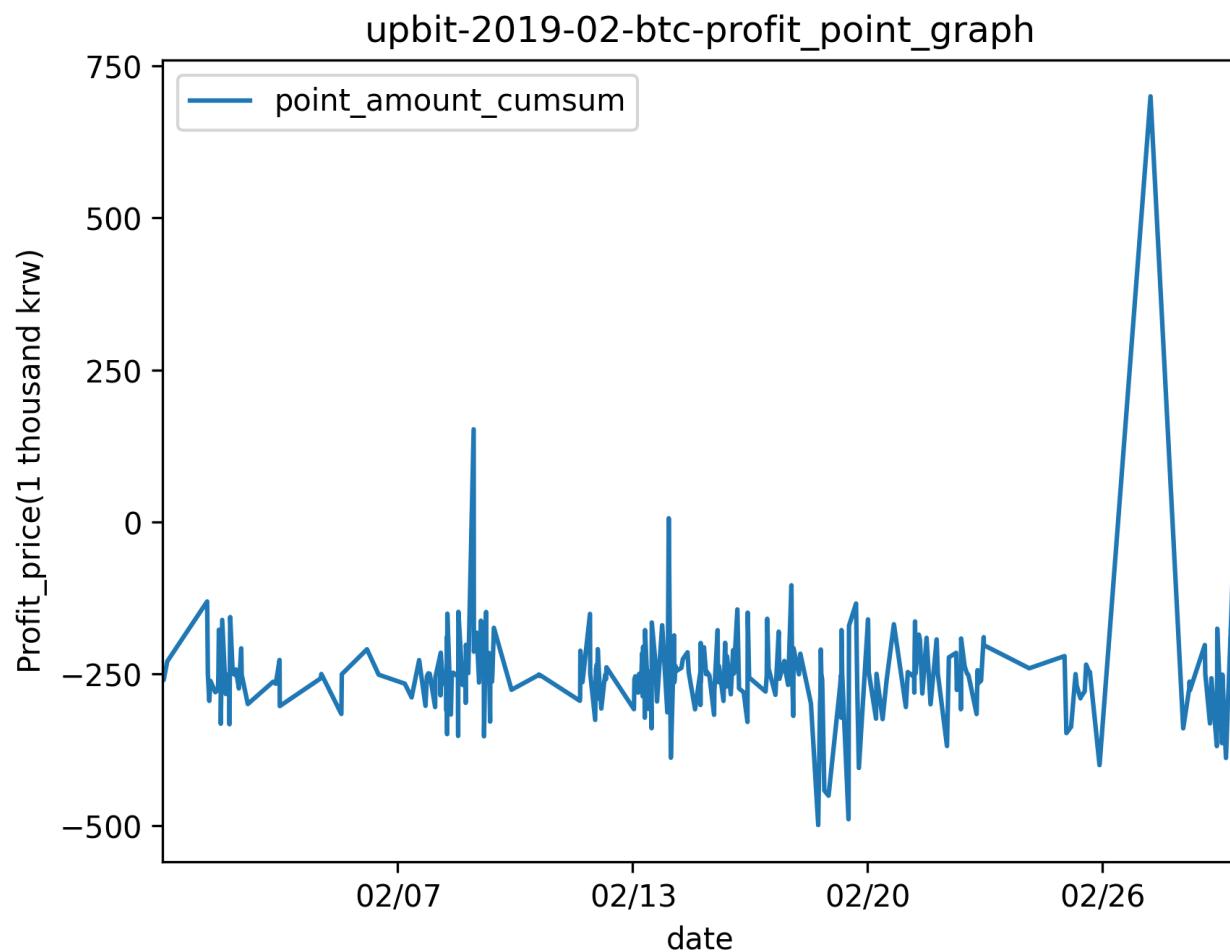
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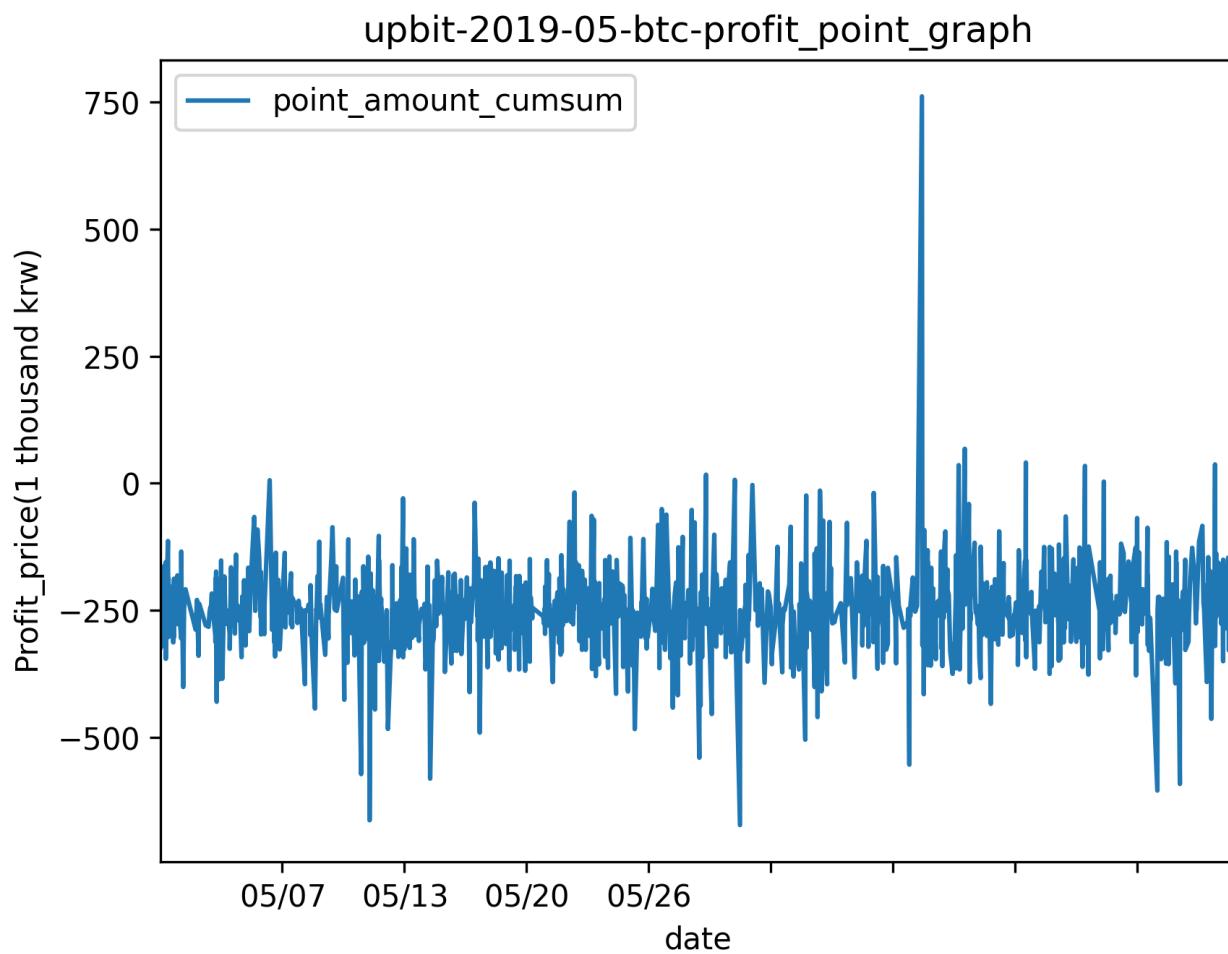
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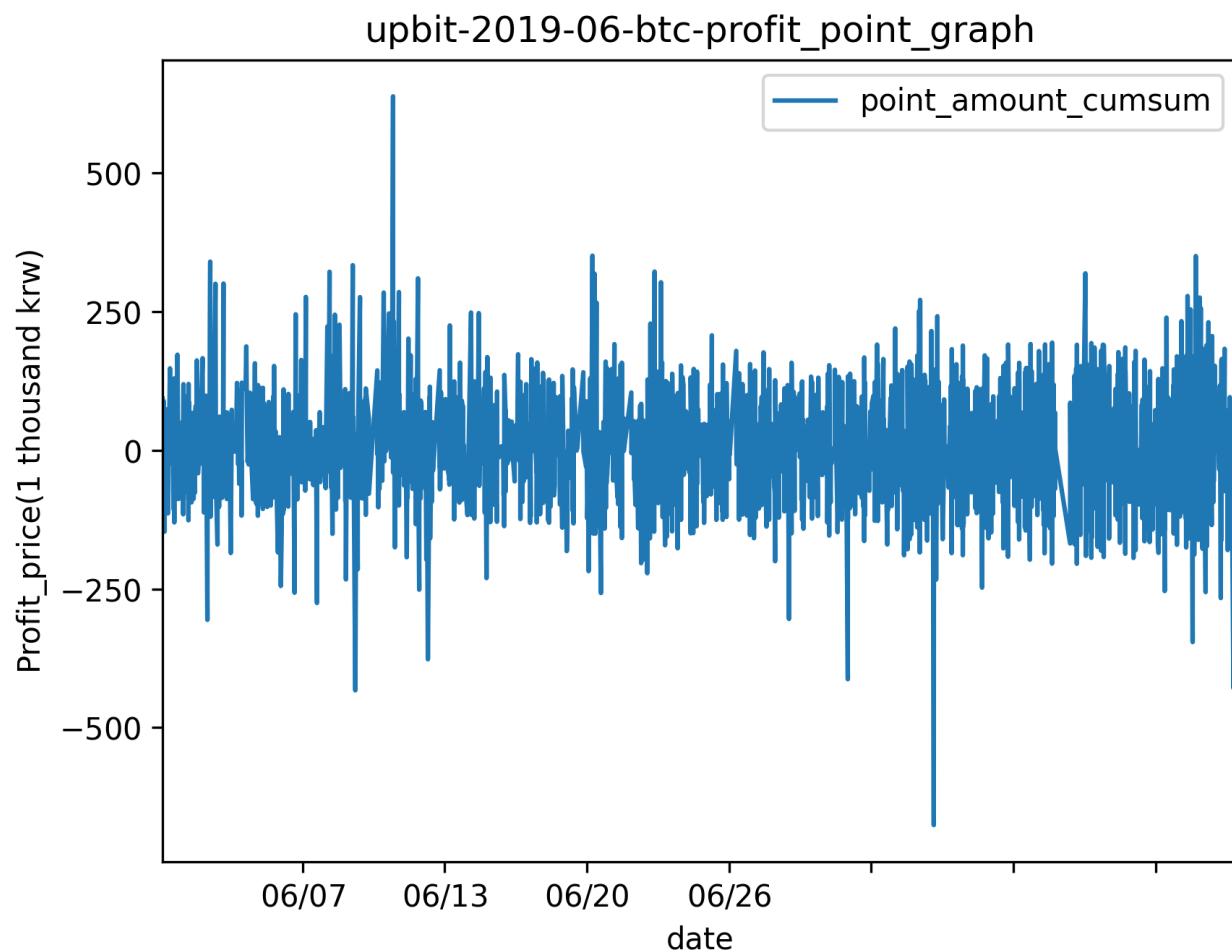
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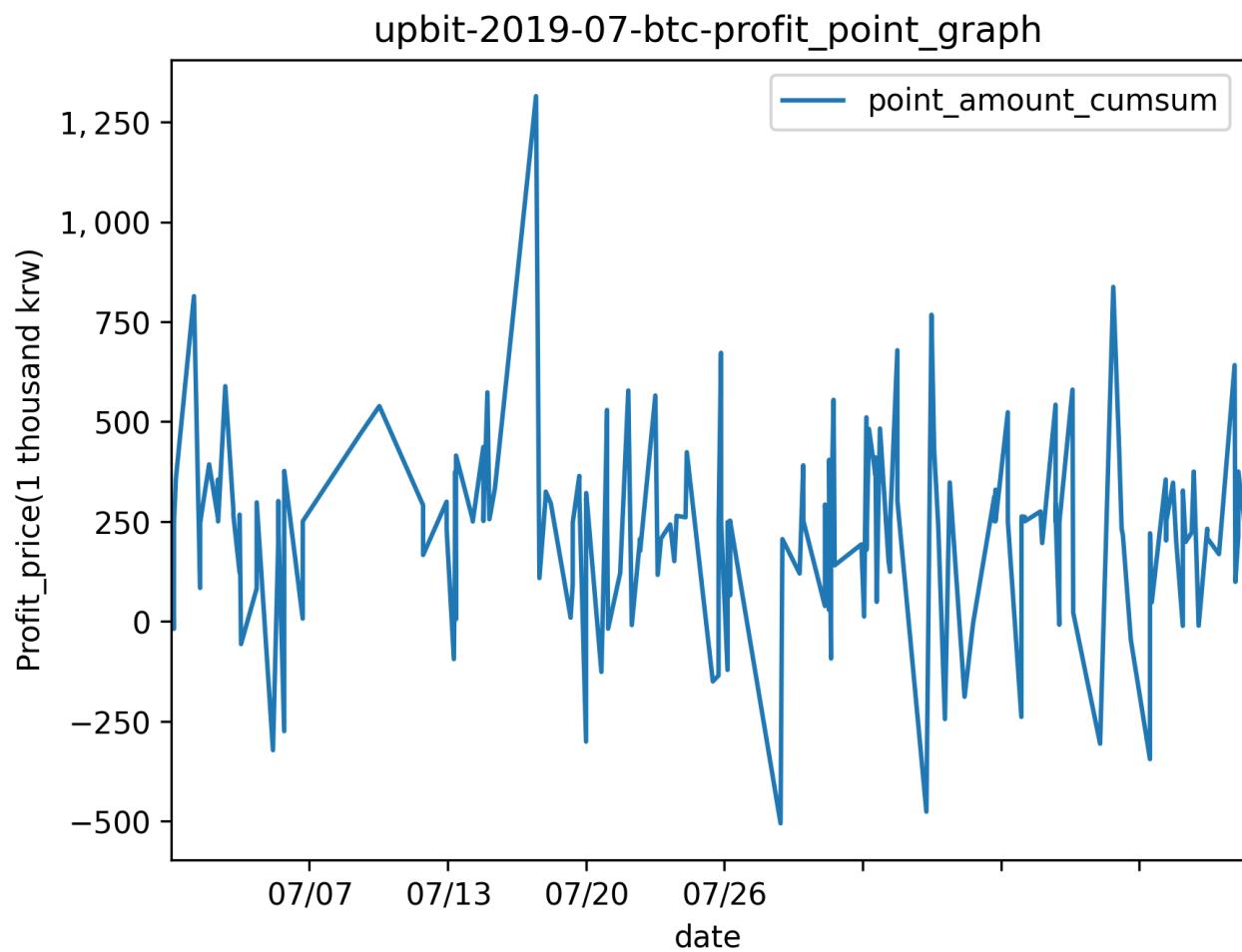
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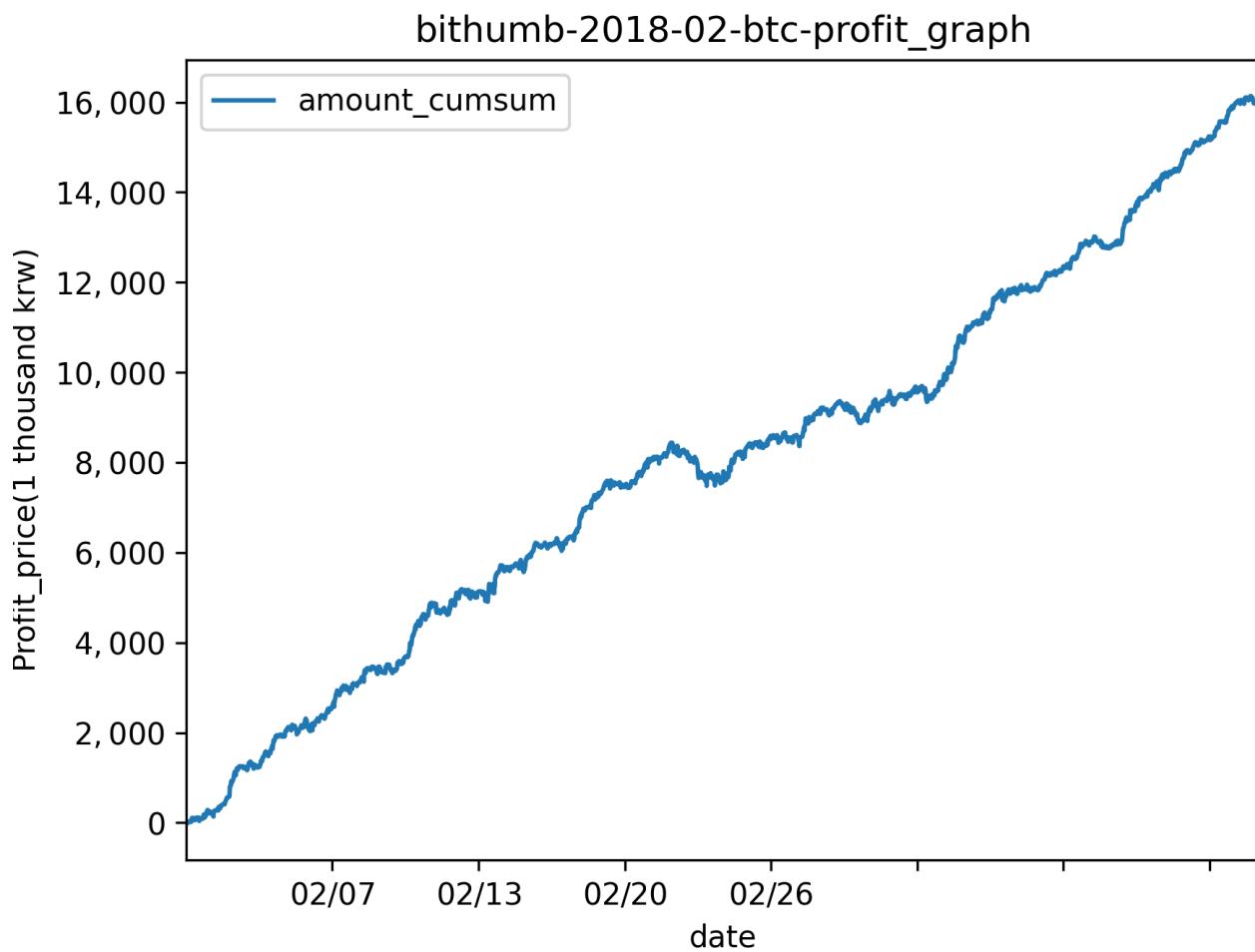
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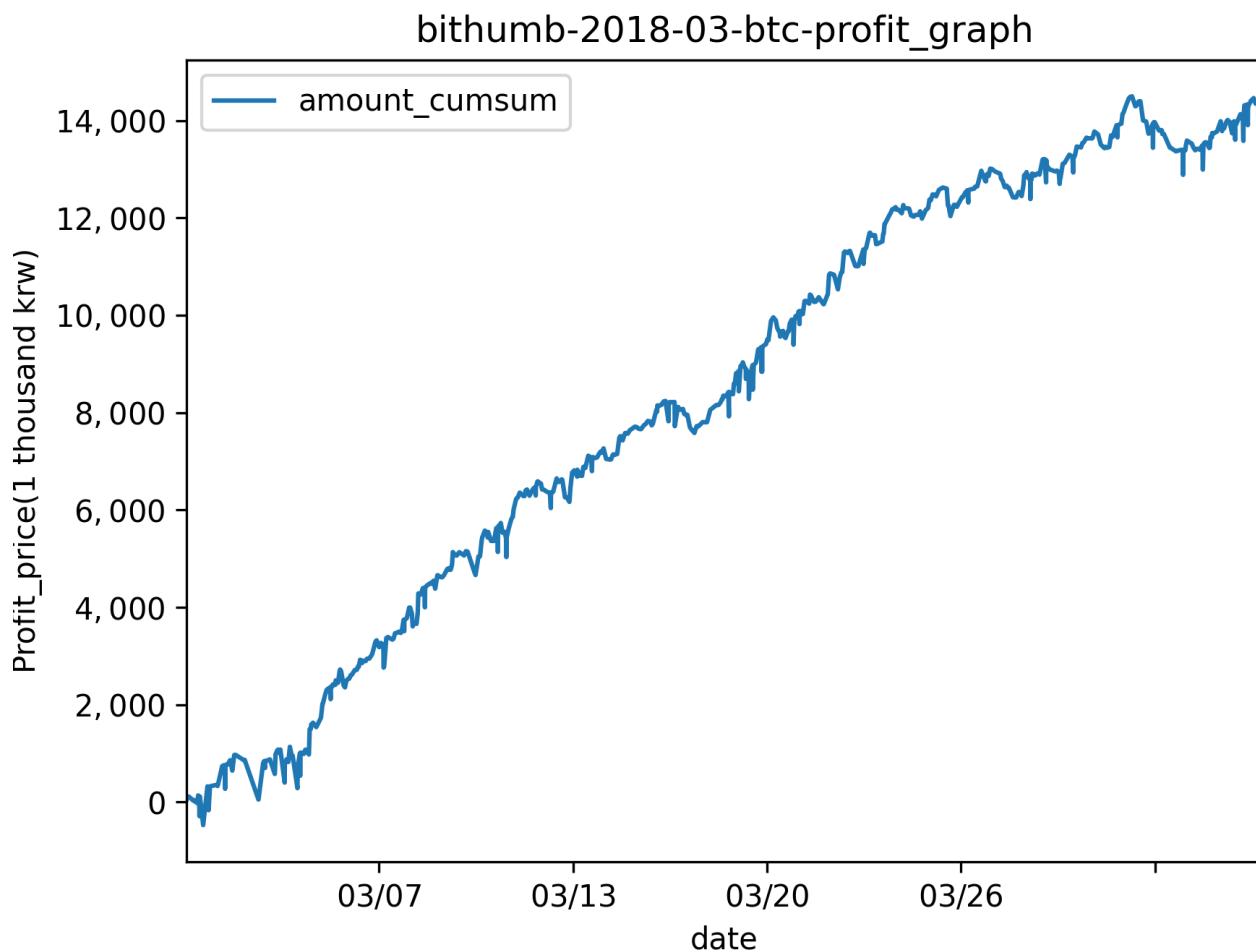
달별 잔여 코인개수가 0이 되는 지점의 누적 profit 그래프

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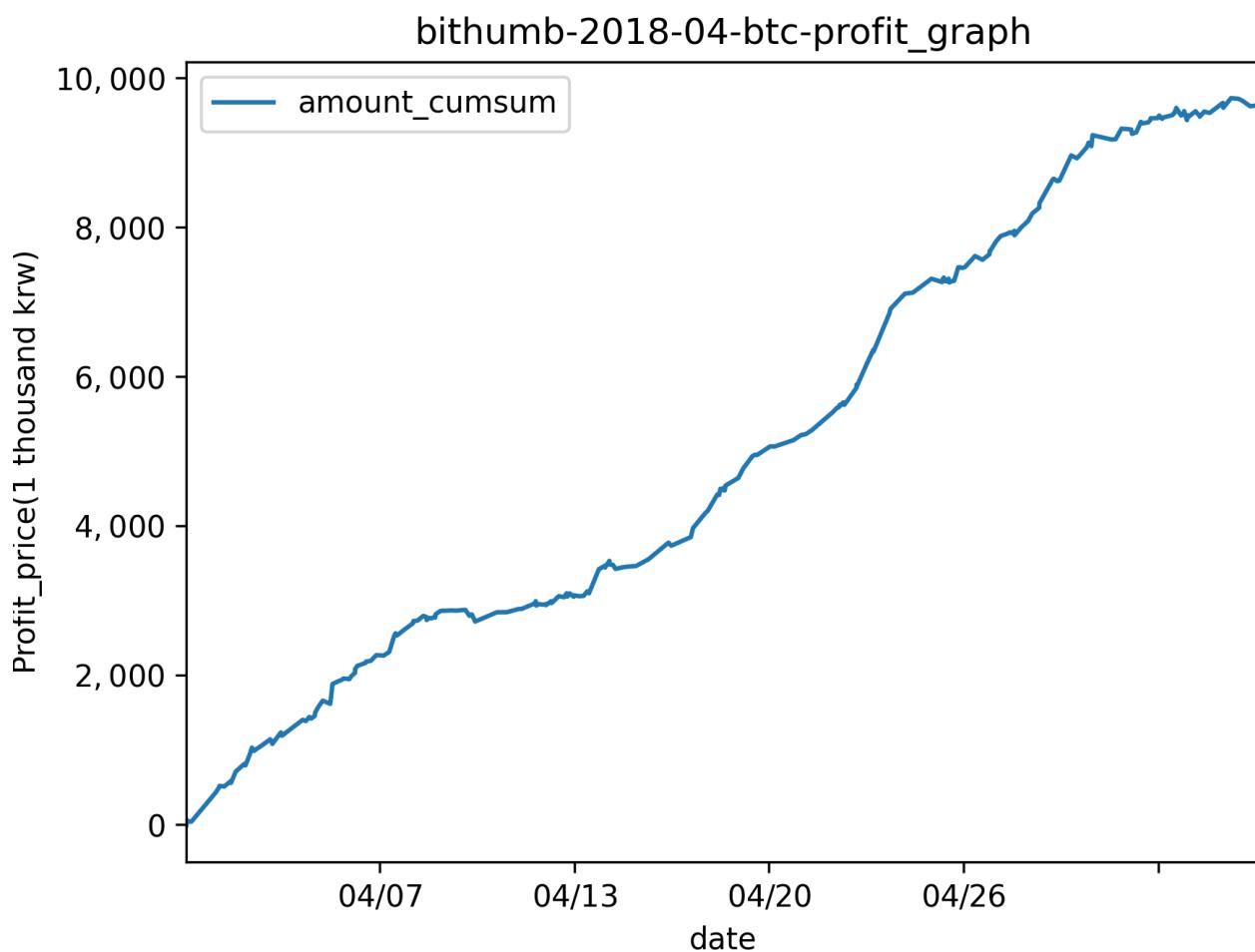
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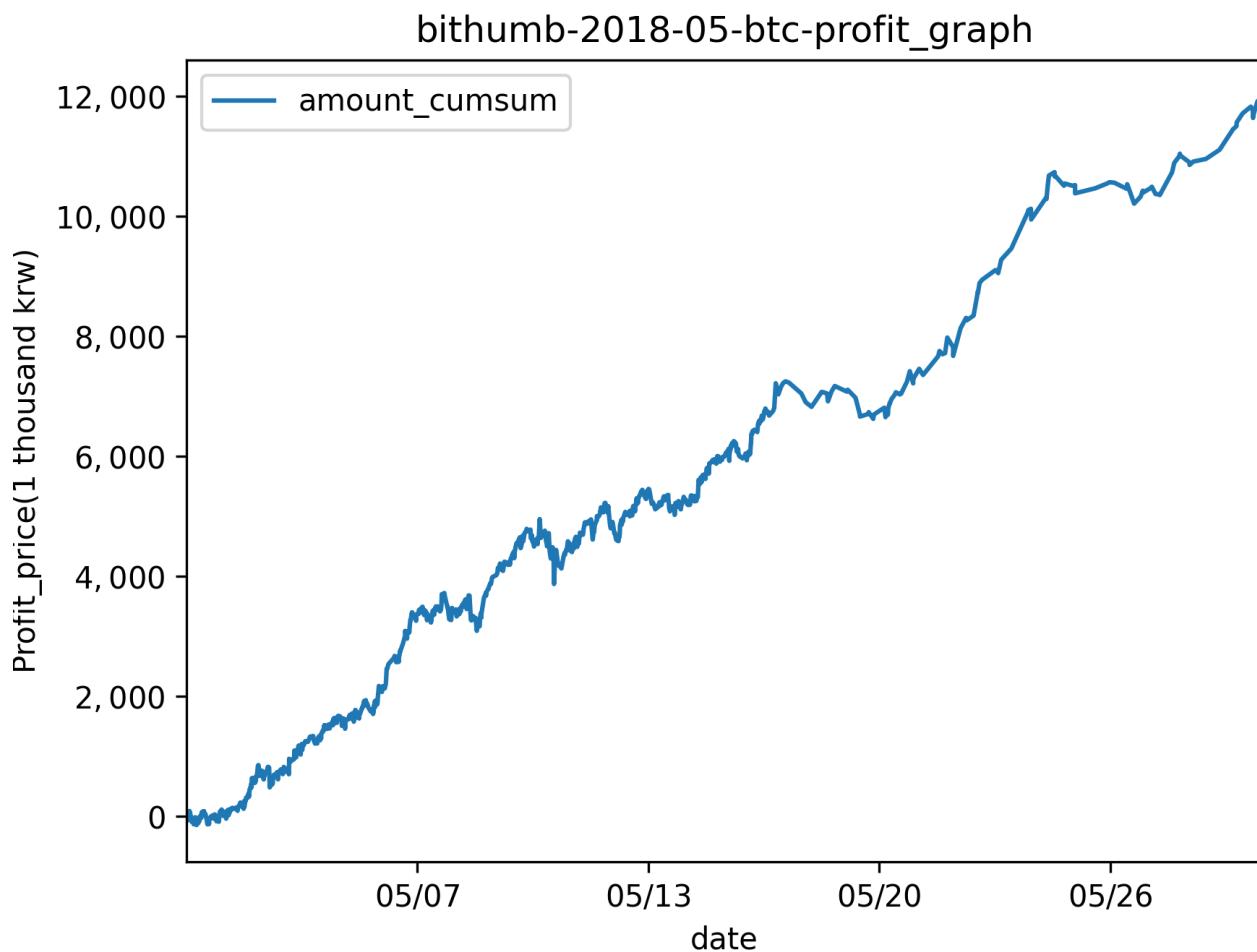
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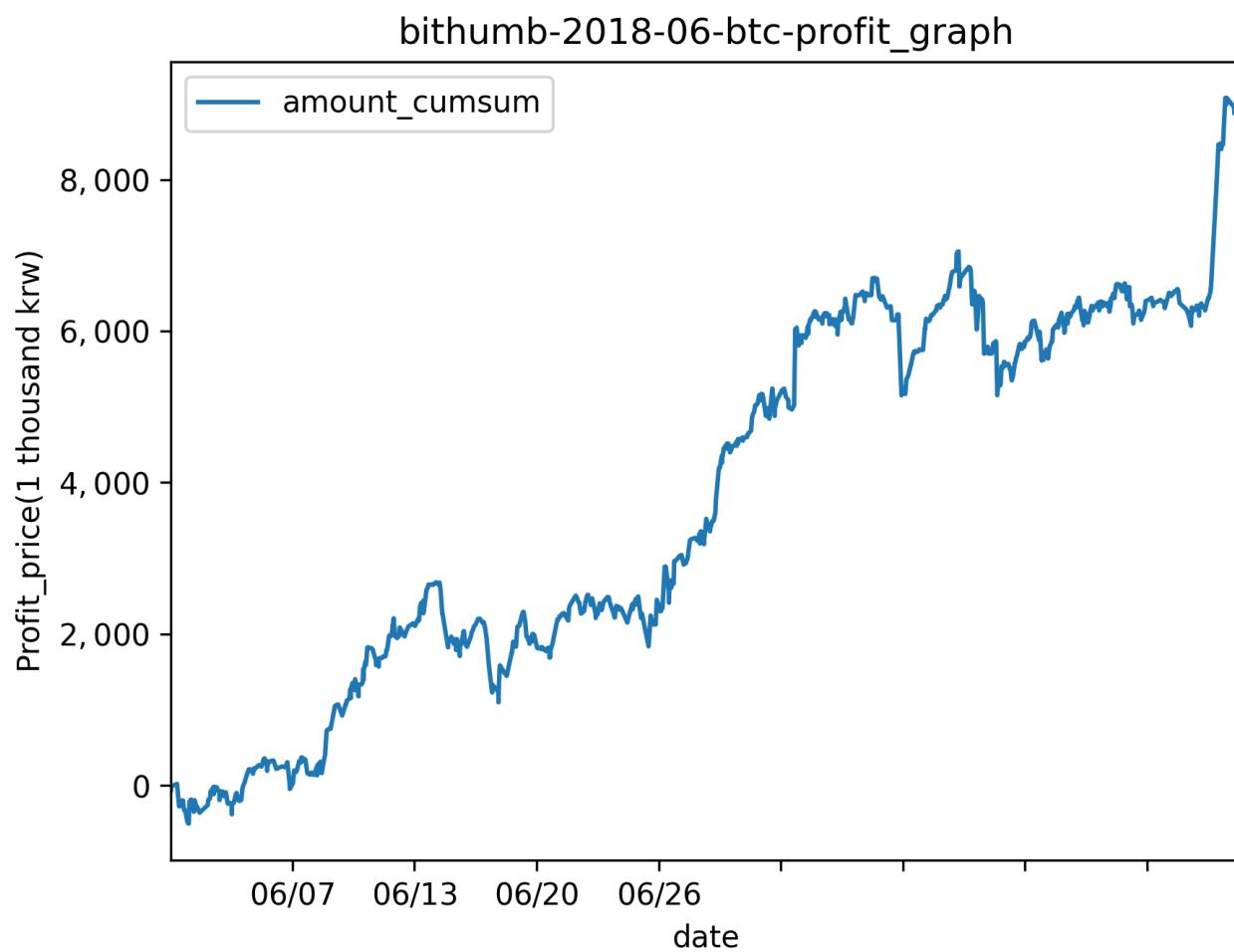
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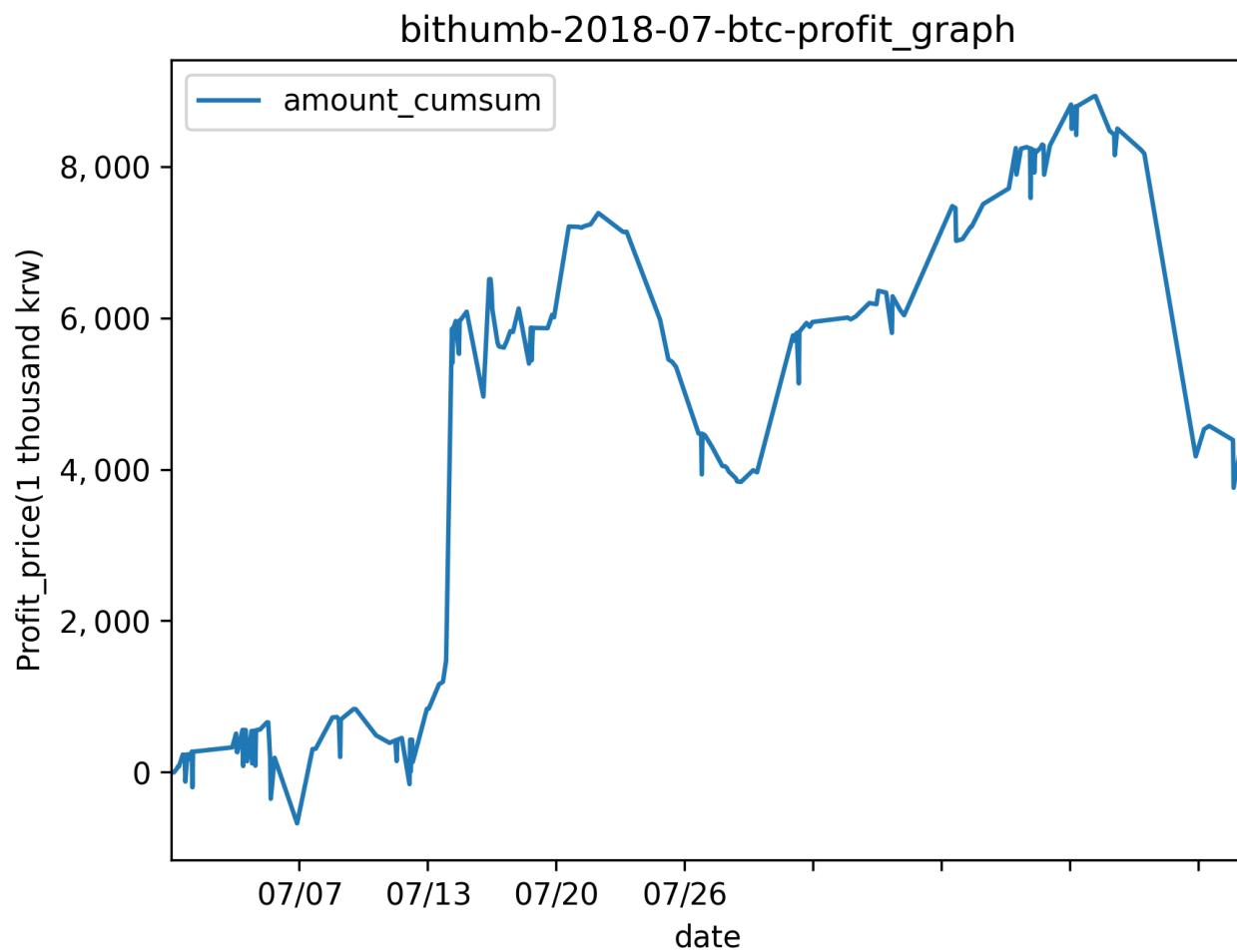
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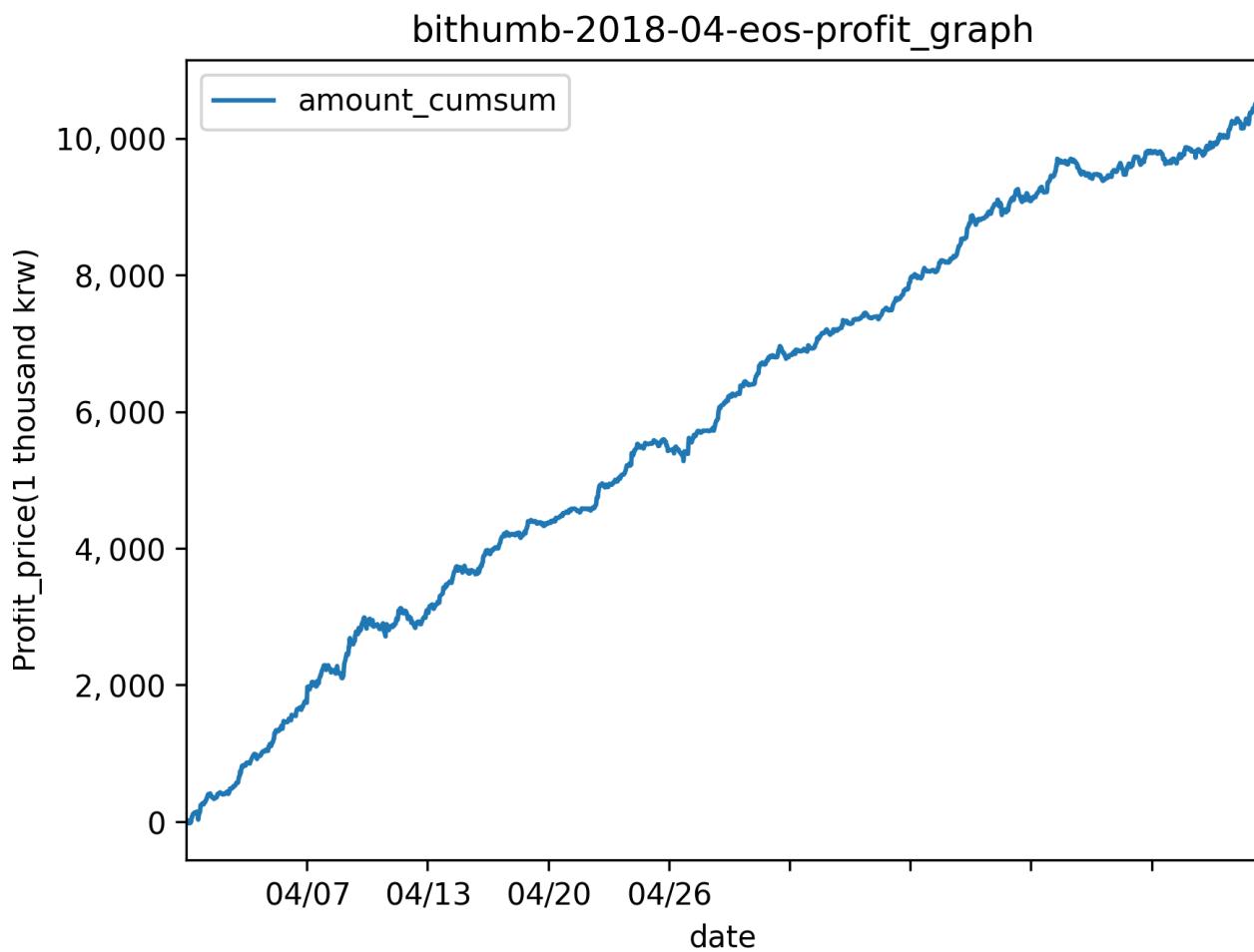
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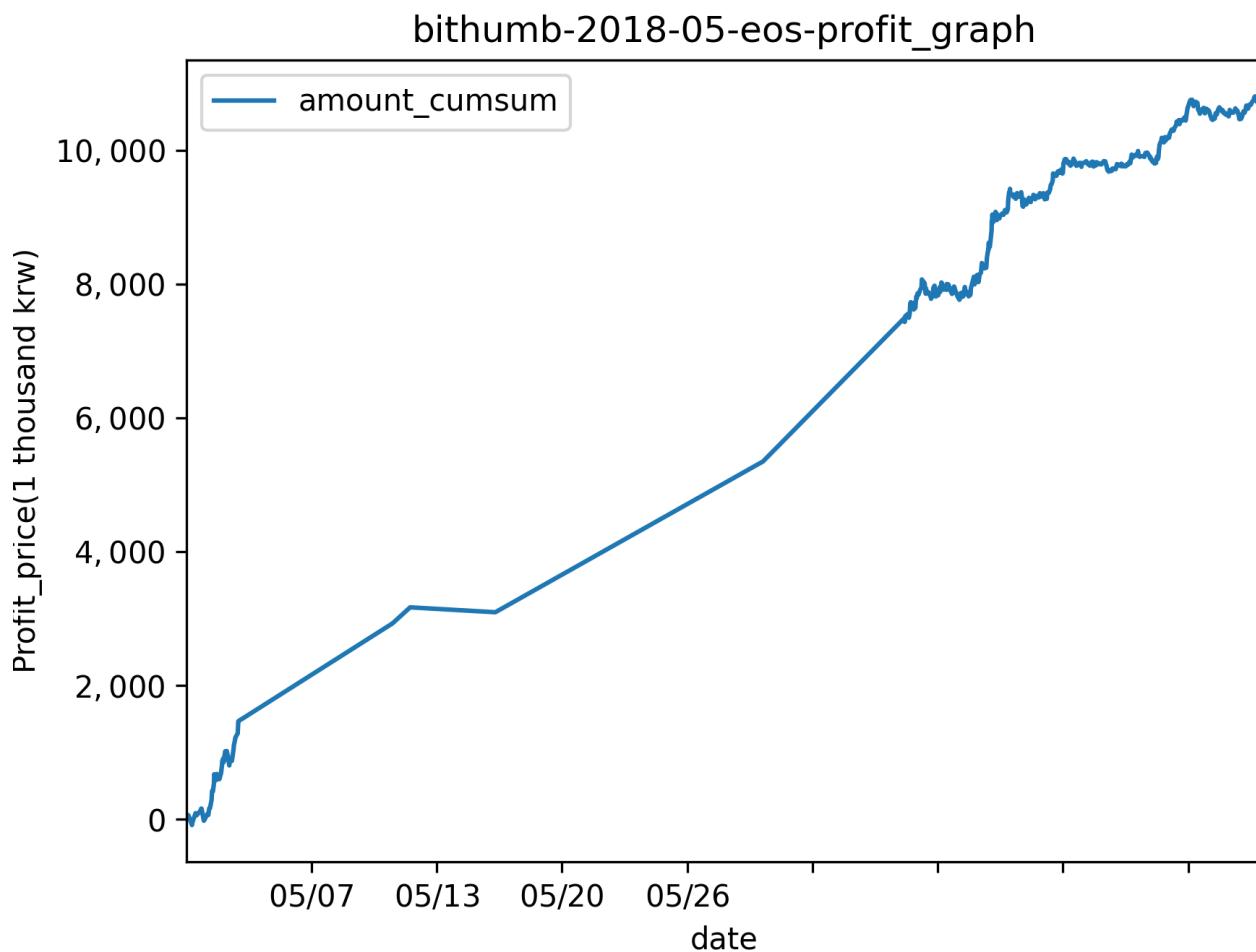
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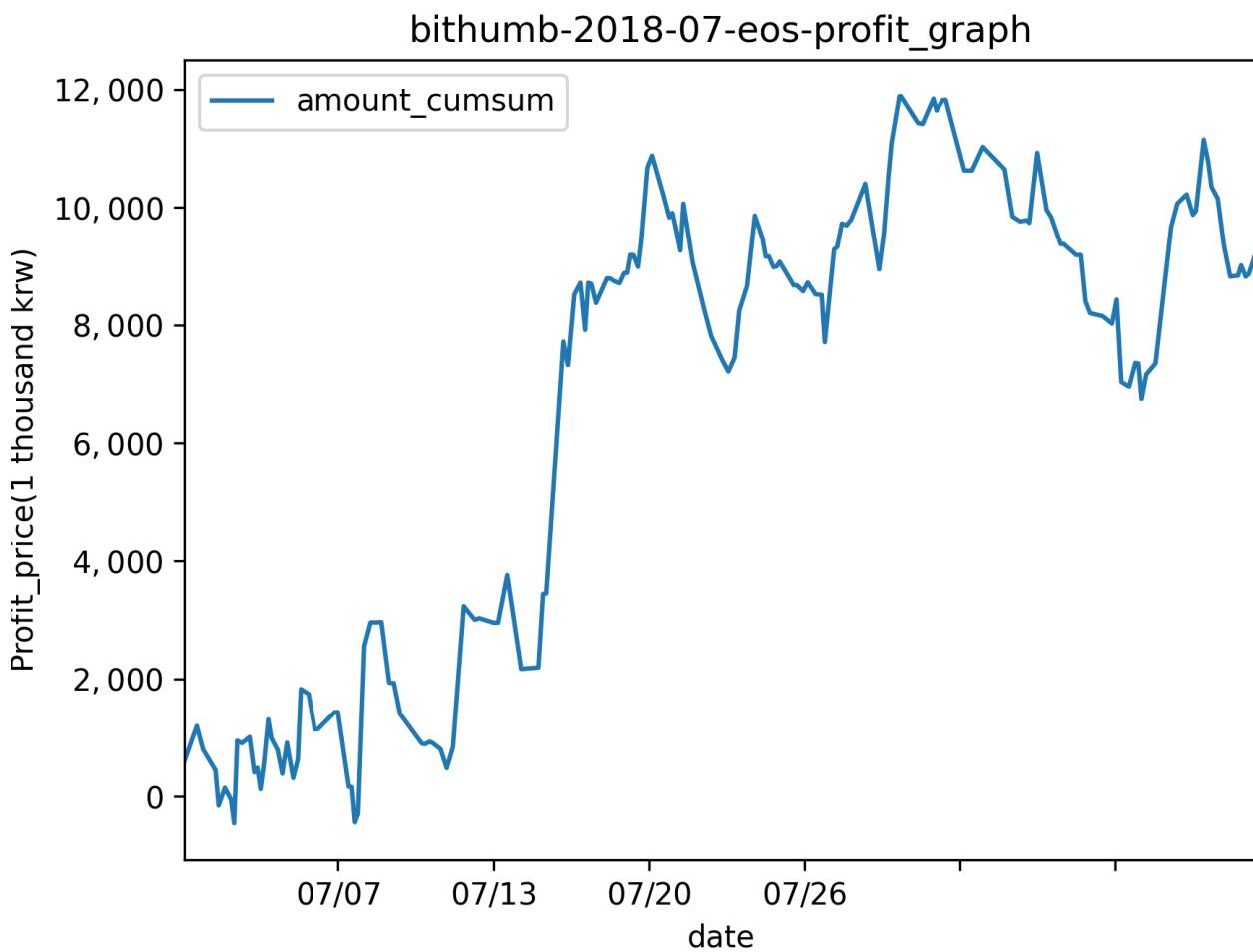
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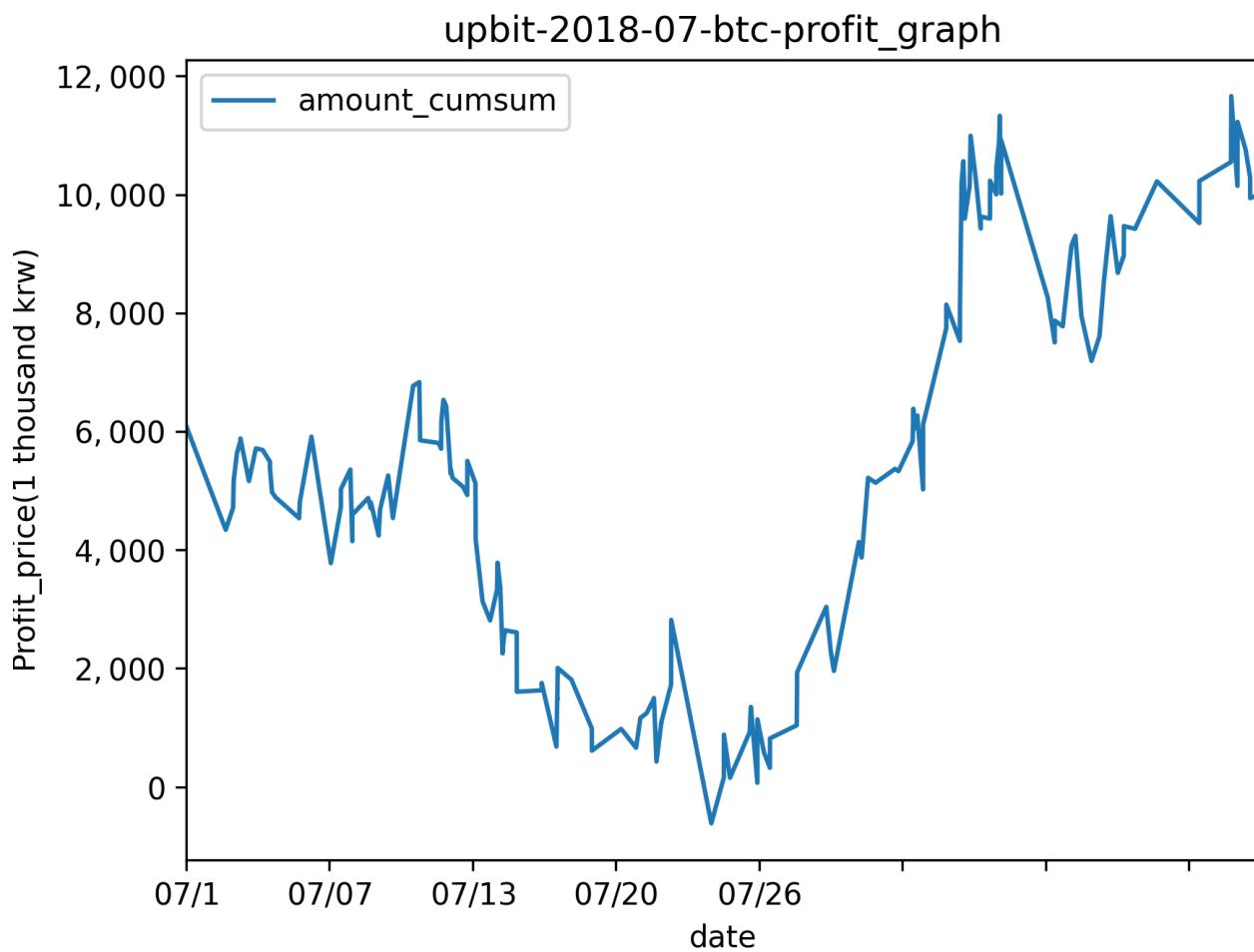
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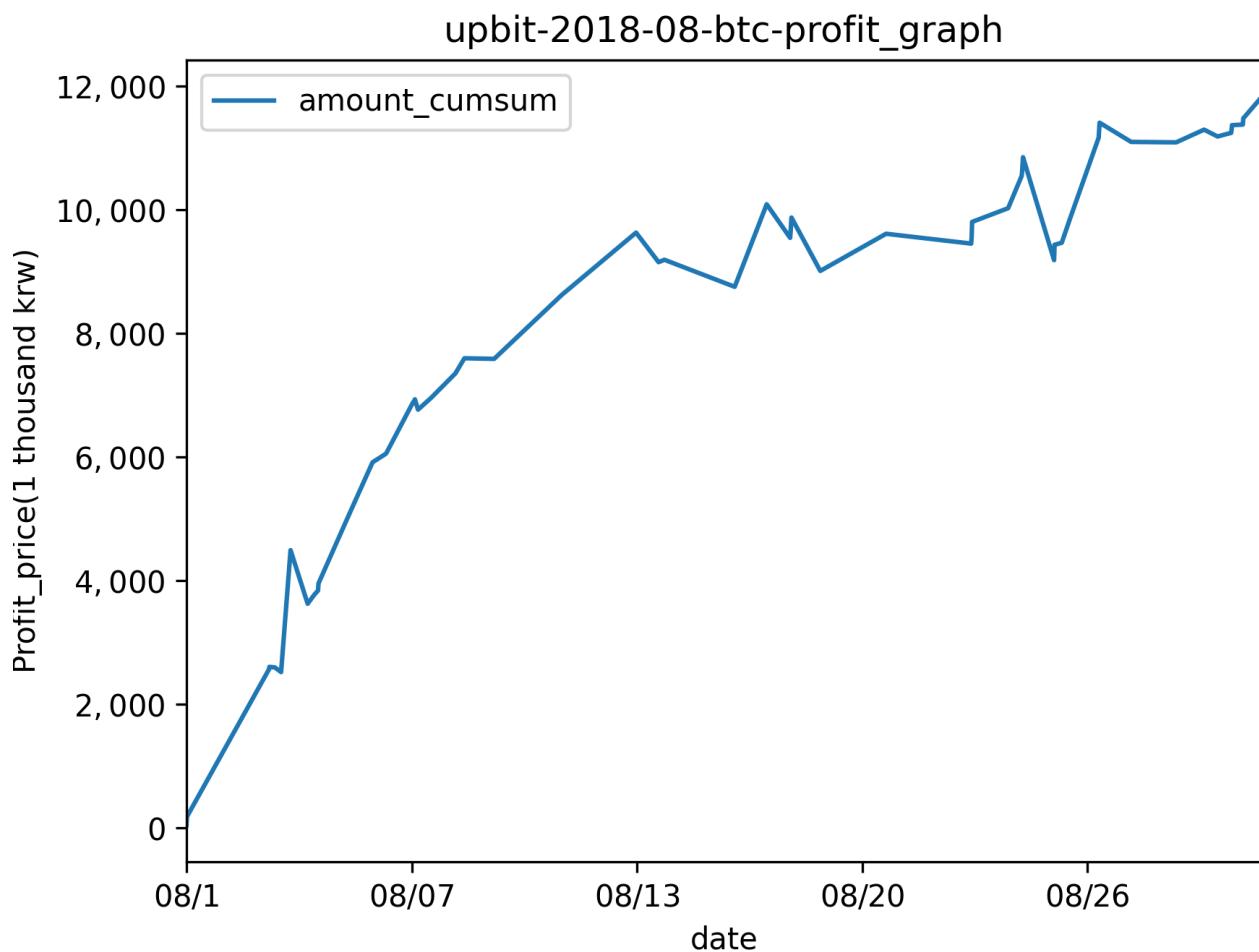
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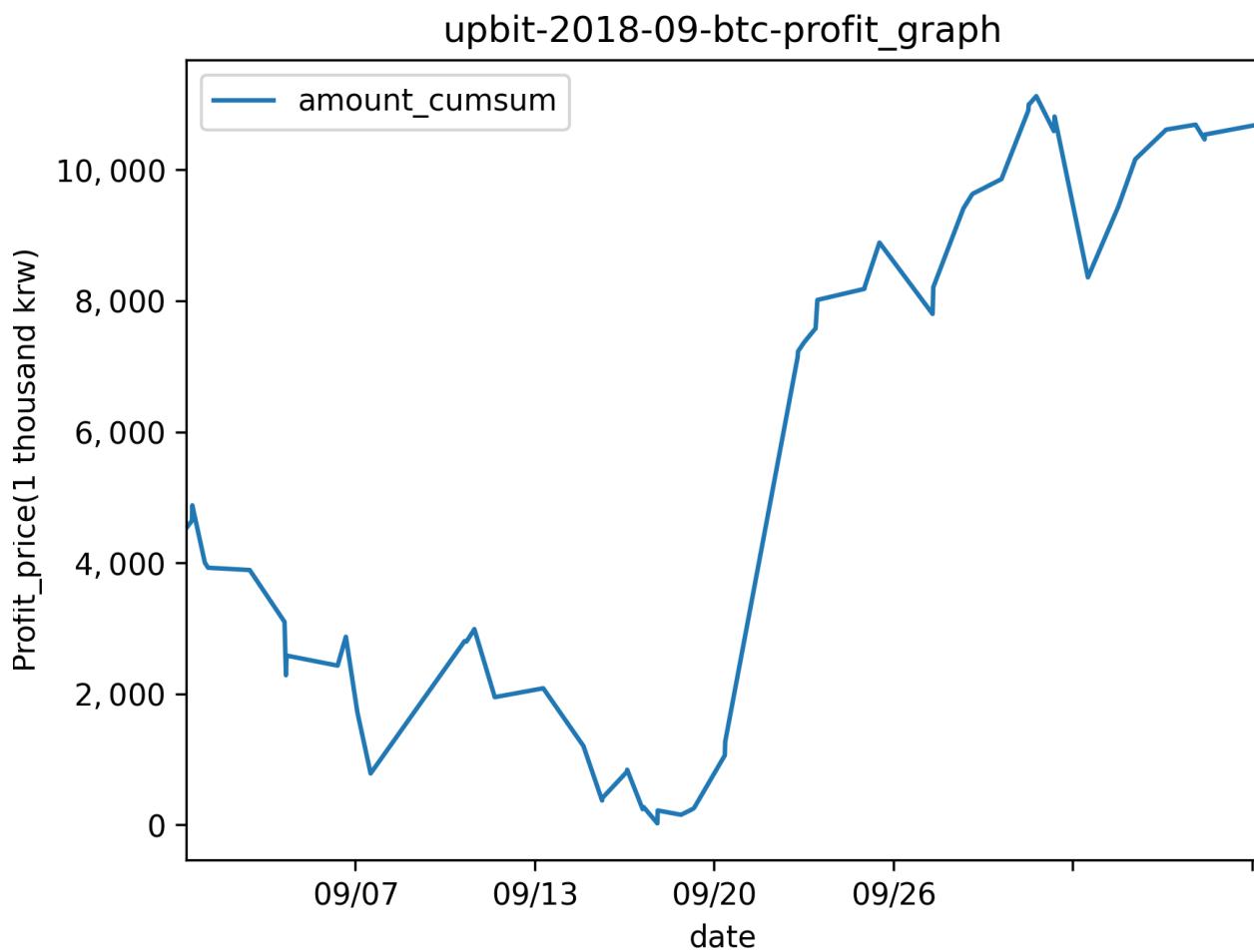
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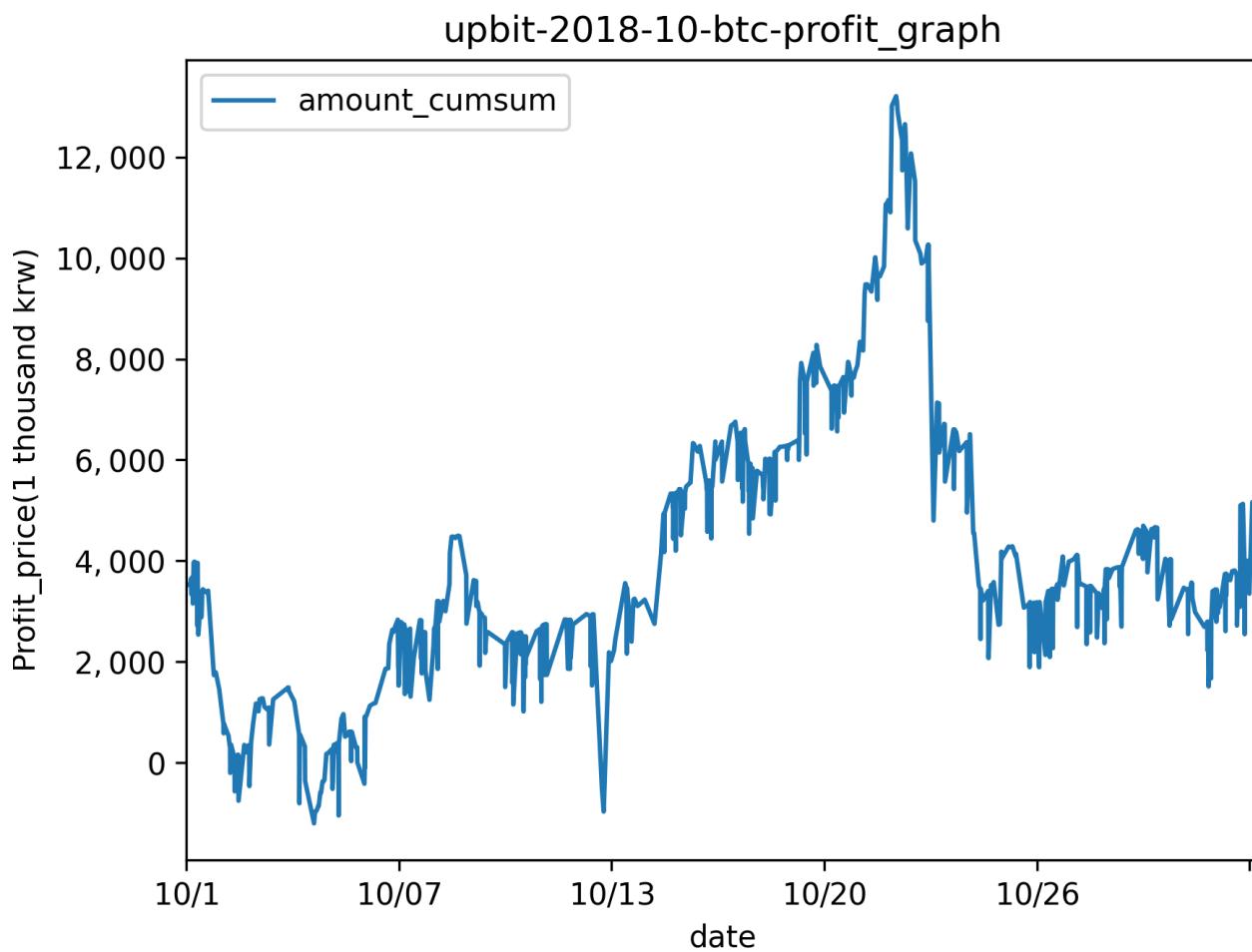
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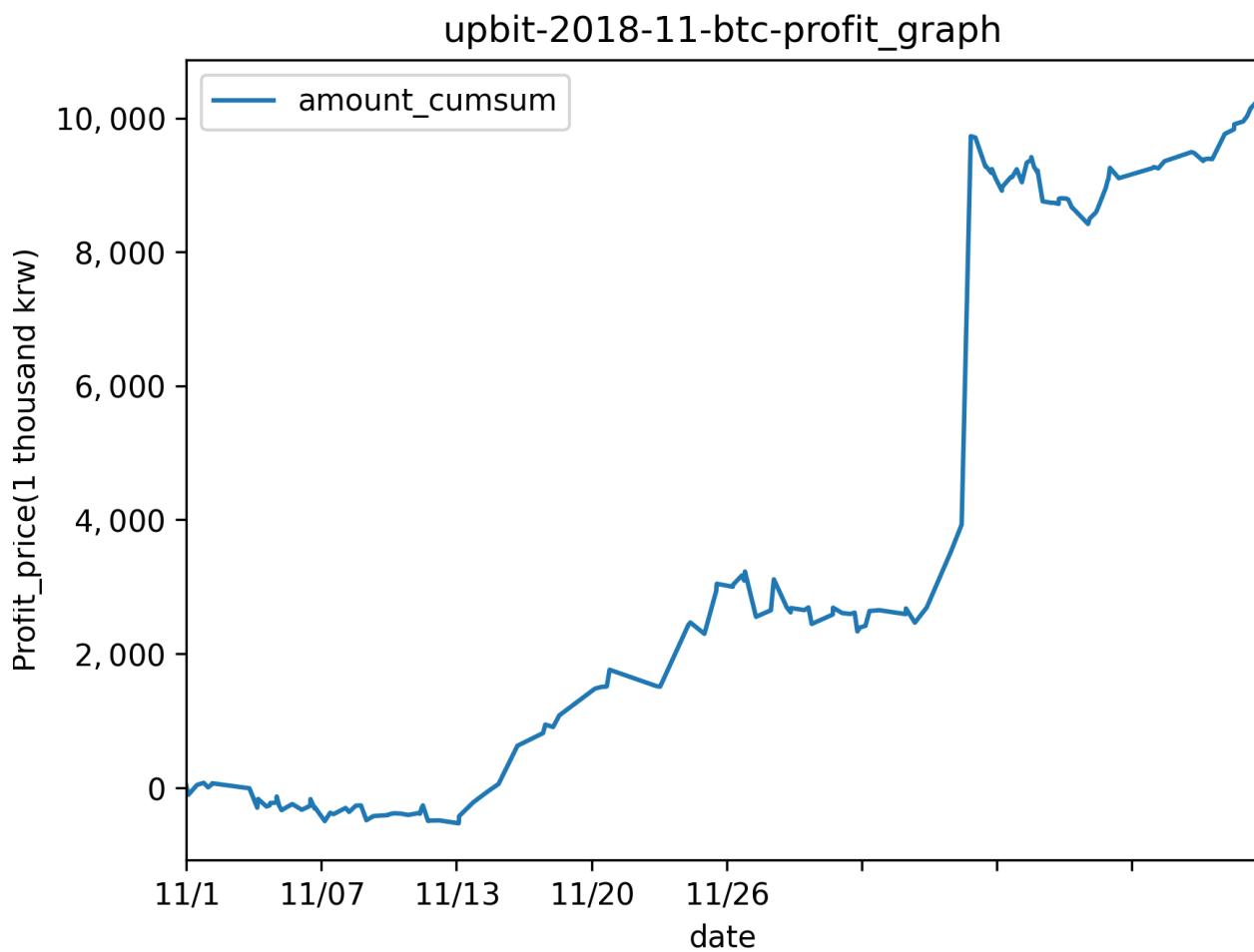
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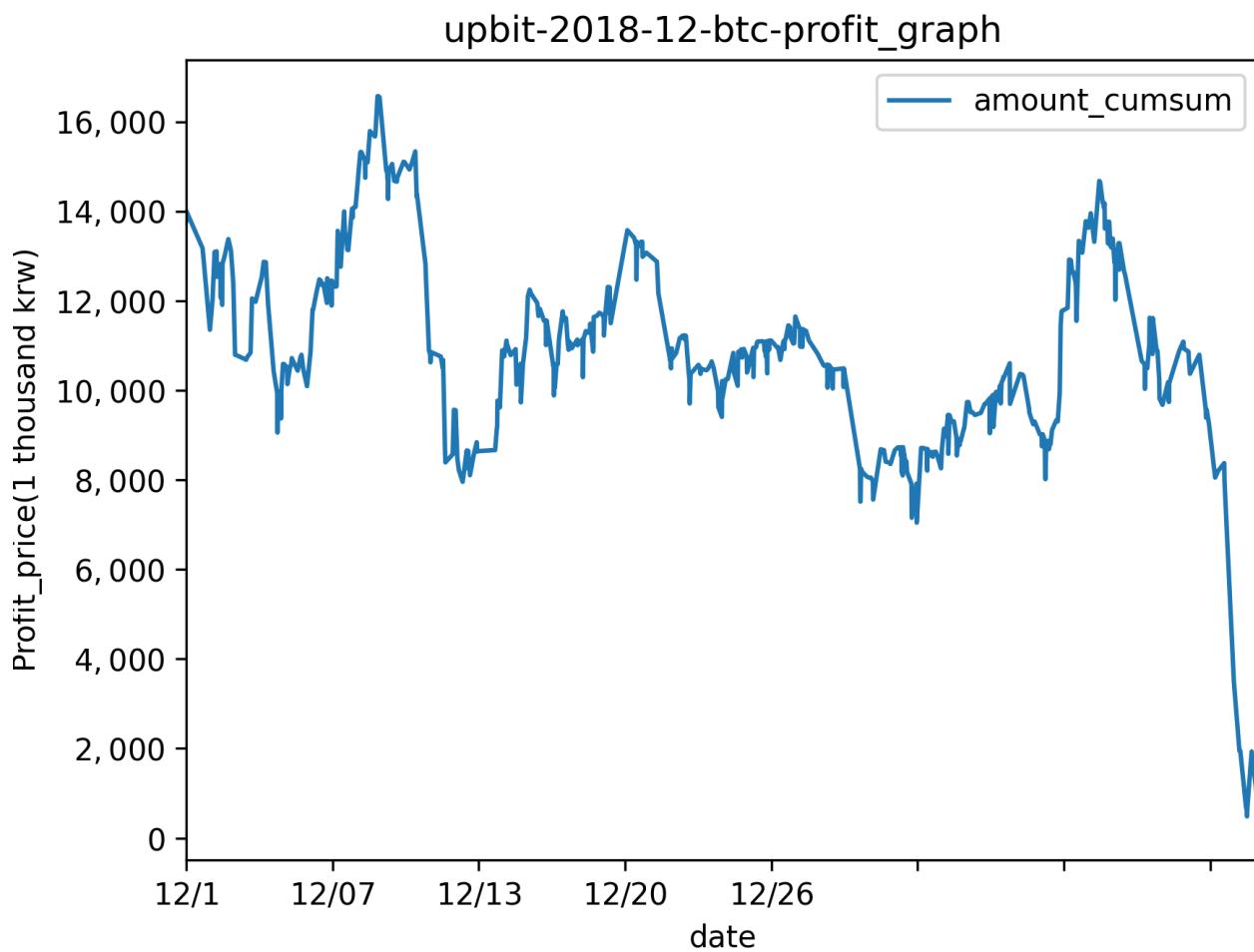
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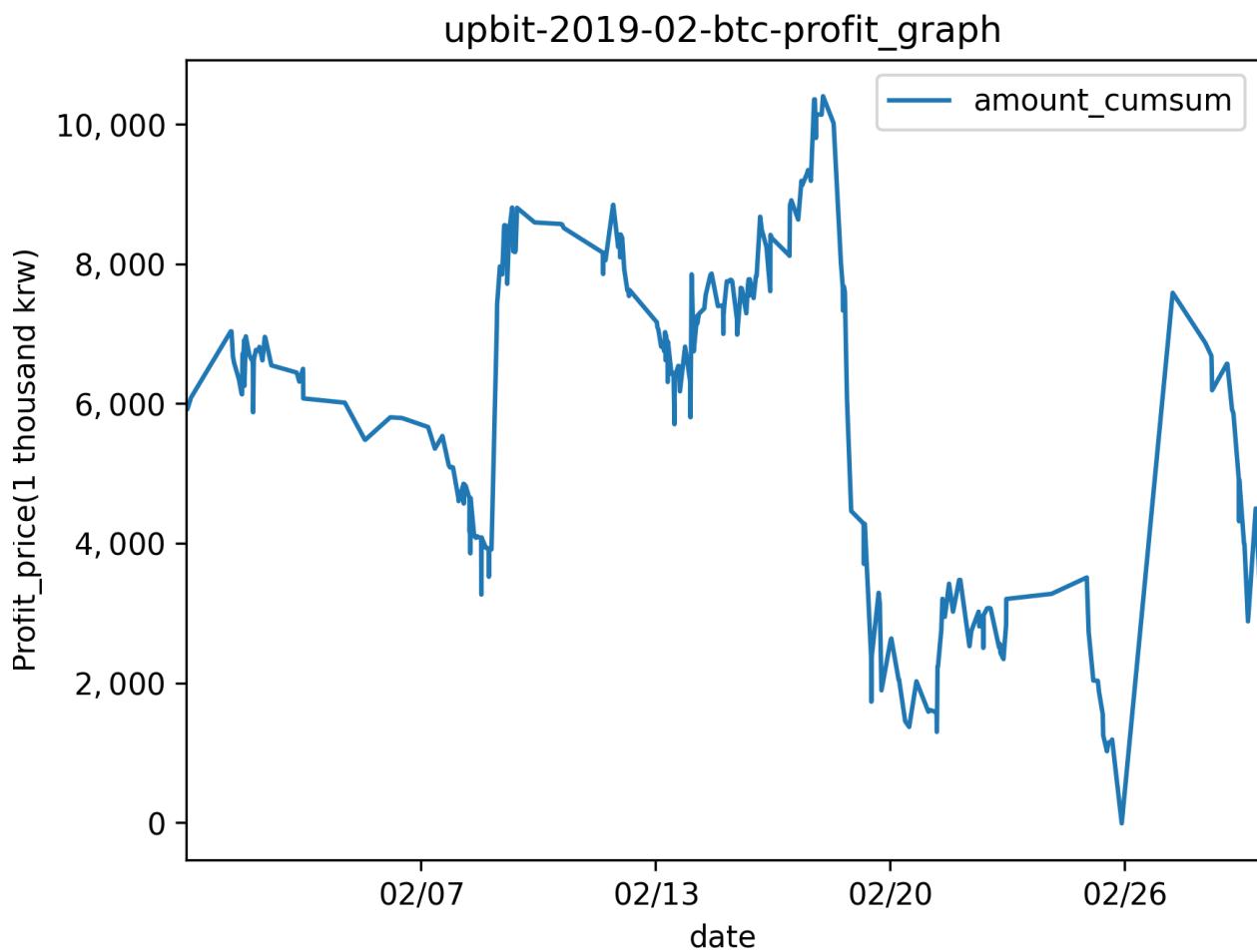
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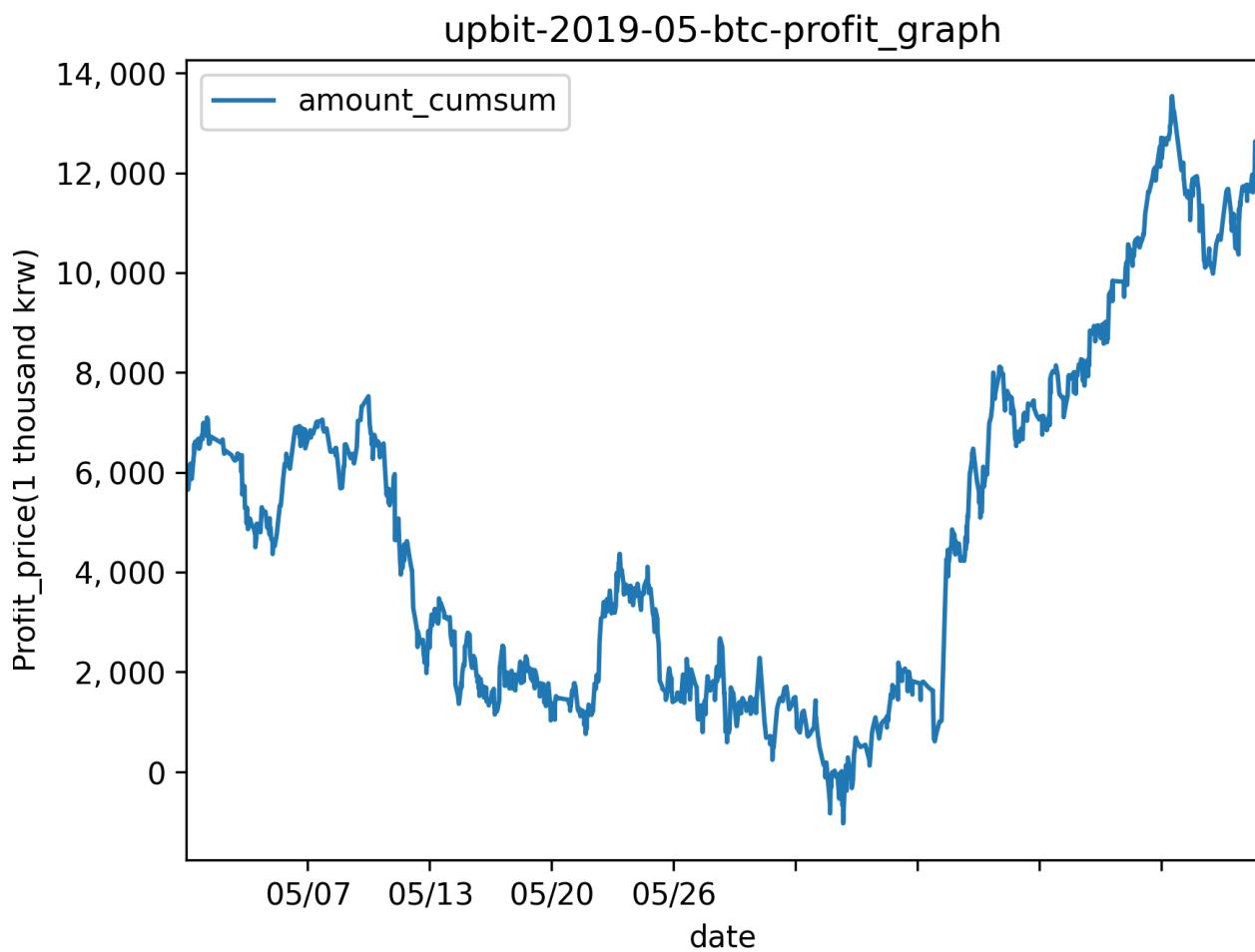
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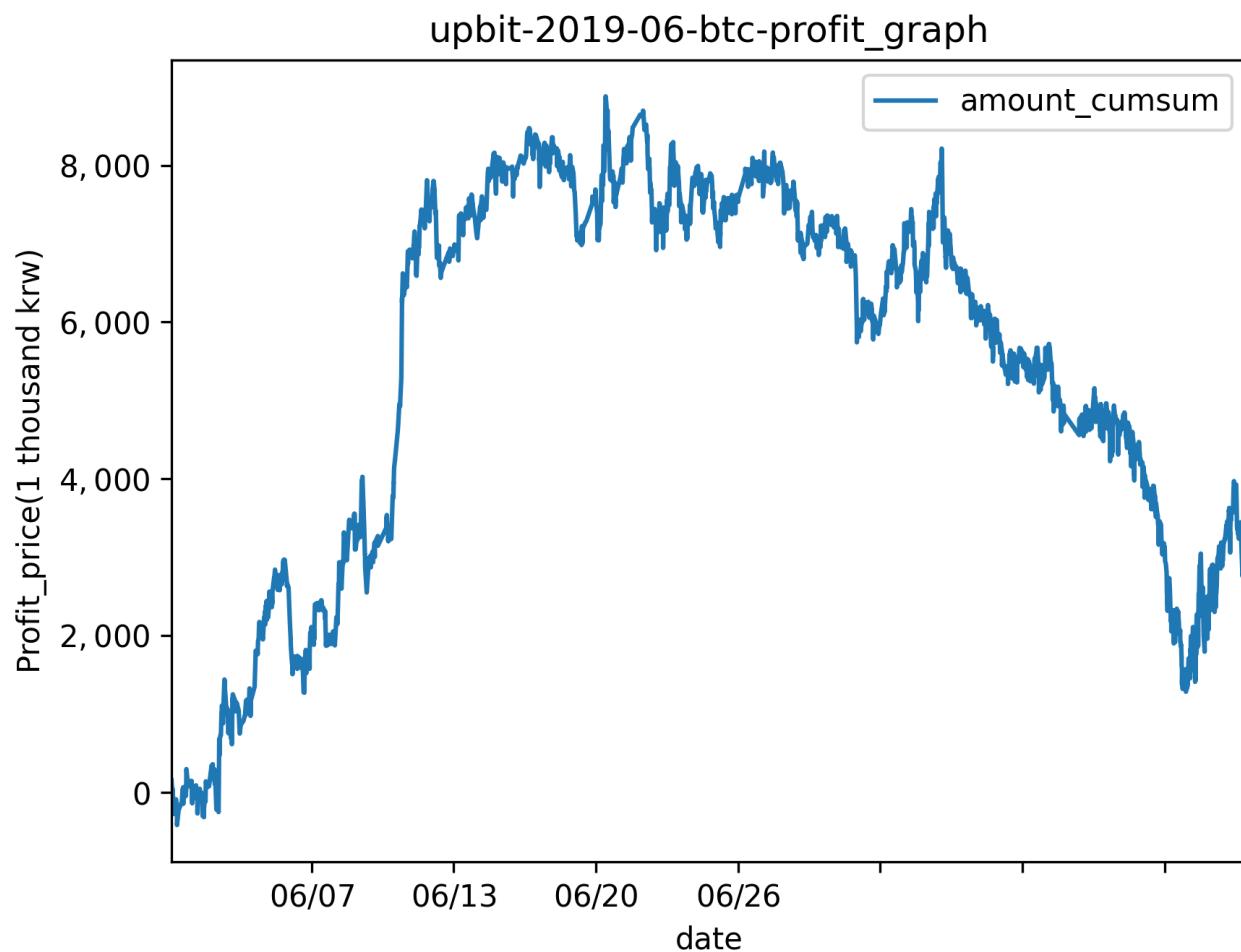
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