xgb model

August 6, 2024

1 XGBoost Model (Without Market Cap Restriction)

XGBoostClassifier, >200

```
[1]: import numpy as np
  import pandas as pd
  import yfinance as yf
  import quantstats as qs
  import matplotlib.pyplot as plt

from sklearn.impute import SimpleImputer
  from sklearn.model_selection import train_test_split
  from sklearn.preprocessing import *
  from sklearn.linear_model import LogisticRegression

from module import *
  import xgboost

pd.options.mode.chained_assignment = None # default='warn'
```

1.1 Load Price Data

```
[2]: price = load_price_data()
price.head(3)
```

/Users/stuartlu/Documents/ /ML /module.py:24: DtypeWarning: Columns (32) have mixed types. Specify dtype option on import or set low_memory=False. price = pd.read_csv(path, encoding='cp950')

[2]: Open High Low Close Volume QuoteVolume 1101 2015-01-05 20.3688 20.3688 20.0872 20.1810 2842 122244 \ 2015-01-06 19.9464 19.9933 19.7586 19.8290 7654 324150 2015-01-07 19.8290 19.9698 19.6413 19.7586 8719 368171

MarketCap YSTD Close TMR Close Daily Return

1101 2015-01-05 158764 NaN 19.8290 -0.017596

2015-01-06	155994	20.181	19.7586	-0.003557
2015-01-07	155441	19.829	19.8290	0.003557

1.2 Load Feature Data

→fundamental_features):

```
[3]: data = load_fundamental_data('./data/ifrs.csv')
    data.head(3)
[3]:
    1101
          2015-05-15 2015-03
                              1 3 31406216
                                                          146388 \
           2015-08-14 2015-06
                                  6 35848634
                                                           145919
                               2
           2015-11-13 2015-09
                               3 9 35931378
                                                           148581
                                                                   0.0 \
    1101
          2015-05-15
                                 19582139.0
                                                          0
           2015-08-14
                                  18260651.0
                                                                    0.0
           2015-11-13
                                  16358225.0
                                                                    0.0
                                        P/E
                                              P/B
                                                     PSR
    1101
          2015-05-15
                         0.0 21758400.0 ...
                                              8.53
                                                      1.38
                                                              1.44 \
                         0.0 21357337.0 ...
           2015-08-14
                                              8.96
                                                       1.31
                                                               1.35
           2015-11-13
                         0.0 19703043.0 ...
                                                       1.12
                                              11.07
                                                               1.25
                         1 2 3
          2015-05-15
                                  3 2015/01 2015/03
    1101
                                                        M1100
                                                                 M1100 \
           2015-08-14
                                   3 2015/01 2015/06
                                                         M1100
                                                                  M1100
                                   3 2015/01 2015/09
           2015-11-13
                                                         M1100
                                                                  M1100
                      TEJ
                             TEJ
    1101
          2015-05-15
                          11A
                                   11A
           2015-08-14
                           11A
                                    11A
           2015-11-13
                           11A
                                    11A
    [3 rows x 245 columns]
[4]: fundamental_features = [' ', 'ROA', 'EBITDA', 'ROE', 'Gross Profit', 'Revenue
     Growth', 'Net Operating Revenue', 'P/E Ratio', 'P/B Ratio', 'PSR', 'EPS']
    def select features(data, features = [' ', 'ROA ',' ',' 'ROE ', ' ', '
```

data = data.rename(columns = dict(zip(features, rename)))

return data[rename]

selected_features = select_features(data)
selected_features

[4]:				ROA	EBITDA	ROE	Gross Pro	fit
	1101	2015-05-15						
		2015-08-14						5.67
		2015-11-13						4.57
		2016-03-31						3.09
		2016-05-13						3.95
	 9958	2023-05-15		0.03		0.09		17
		2023-08-11	2023-06	0.66	18.25	2.13	13	3.36
		2023-11-13	2023-09	1.29	24.85	4.05	18	3.36
		2024-03-08	2023-12	2.10	26.35	5.90	24	4.20
		2024-05-14	2024-03	3.56	46.44	8.33	3	7.76
			Revenue	Growth	Net O	peratin	ng Revenue	P/E Ratio
	1101	2015-05-15	-	-19.75			21440142	8.53 \
		2015-08-14		-21.58	}		24994185	8.96
		2015-11-13		-24.63	}		22683975	11.07
		2016-03-31		-17.14	:		24560774	
		2016-05-13		-17.33	;		17724112	15.82
				•••			•••	•••
	9958	2023-05-15		20.31				-888.00
		2023-08-11		84.90				-888.00
		2023-11-13						156.81
		2024-03-08		68.99				25.39
		2024-05-14		17.71			3148958	20.65
			P/B Rati	io PS	R EPS			
	1101	2015-05-15	1.38	3 1.44	0.22			
		2015-08-14	1.3	31 1.3	5 0.61			
		2015-11-13	1.1	l2 1.2	5 0.26			
		2016-03-31	0.9	93 1.0	0.48			
		2016-05-13	1.0	08 1.2	9 0.06			
	9958	2023-05-15	3.17					
		2023-08-11	4.3					
		2023-11-13	5.4					
		2024-03-08	4.6					
		2024-05-14	4.7	77 Na	N 2.66			

[5]: #selected_features[selected_features.index.get_level_values(0) == '1312 ']
selected_features[(selected_features[' '] == '2022-03') & (selected_features.

index.get_level_values(1) >= '2022-06-30')]

[5]:					ROA	EBITDA	ROE	Gross Profit	
	1442		2023-05-12	2022-03	0.01	5.85	0.02	14.35 \	
	2441		2023-04-28					32.35	
	2645		2023-05-15				3.35	14.73	
	2762	-KY	2023-08-25	2022-03	0.53	33.06	3.19	17.31	
	3447		2023-05-05	2022-03	1.44	6.24	4.96	10.54	
	4569	-KY	2023-06-28	2022-03	4.84	33.58	5.37	23.43	
	5292		2023-06-28	2022-03	3.38	17.29	7.99	22.85	
	6526		2023-05-11					52.81	
	6606		2023-05-12	2022-03	-0.05	27.08	-0.09	38.04	
	6657		2023-05-12	2022-03	-3.53	-3051.56	-3.65	79.22	
	6658		2023-05-12	2022-03	2.05	12.44	4.27	26.38	
	6742		2023-05-15	2022-03	1.17	27.36	1.55	20.80	
	6753		2023-05-15	2022-03	1.32	16.40	4.27	16.56	
	6782		2022-07-18	2022-03	5.98	38.75	17.53	45.66	
	6805		2023-04-25	2022-03	4.55	18.53	10.95	22.36	
	6835		2023-05-11	2022-03	3.13	12.15	7.31	18.63	
	6861		2022-07-14	2022-03	2.36	13.97	6.07	26.86	
	6863	-KY	2023-05-10	2022-03	4.72	27.55	5.45	30.21	
	6869		2023-05-15	2022-03	1.05	14.43	2.21	29.92	
	6901		2023-05-15	2022-03	23.56	97.88	24.25	100.00	
	6906		2023-06-16	2022-03	8.19	64.32	11.38	86.98	
	6916		2023-07-28	2022-03	1.20	10.58	3.99	20.15	
	6933	AMAX-	⟨Υ 2023-09-01	2022-03	3 2.95	5.18	8.06	11.19	
				Revenue	e Growth	Net Ope	erating	Revenue P/E Ratio	
	1442		2023-05-12		-46.18			194434 18.98	\
	2441		2023-04-28		11.81			713423 6.98	
	2645		2023-05-15		NaN		27	37123 22.53	
	2762	-KY	2023-08-25		NaN		21	.83539 NaN	
	3447		2023-05-05		NaN			985578 14.11	
	4569	-KY	2023-06-28		NaN		;	322039 NaN	
	5292		2023-06-28		NaN			422736 9.81	
	6526		2023-05-11		NaN		5	186062 NaN	
	6606		2023-05-12		NaN		2	213127 11.11	
	6657		2023-05-12		NaN			799 -888.00	
	6658		2023-05-12		NaN			351797 16.23	
	6742		2023-05-15		NaN			115252 128.85	
	6753		2023-05-15		NaN		8	306326 16.83	

```
6782
                 2022-07-18
                                       41.10
                                                              642103
                                                                          24.02
                                      45.04
                                                                          21.63
     6805
                 2023-04-25
                                                            1539213
     6835
                 2023-05-11
                                         NaN
                                                             746180
                                                                          14.32
     6861
                2022-07-14
                                     -11.66
                                                             466786
                                                                         21.59
     6863
                 2023-05-10
                                         NaN
                                                                            NaN
          -KY
                                                             513655
     6869
                2023-05-15
                                        NaN
                                                             736792
                                                                         37.51
     6901
                2023-05-15
                                        NaN
                                                                           NaN
                                                            2966187
     6906
                 2023-06-16
                                        NaN
                                                              99773
                                                                           NaN
     6916
                 2023-07-28
                                         NaN
                                                              614427
                                                                            NaN
     6933 AMAX-KY 2023-09-01
                                          NaN
                                                              1626340
                                                                             NaN
                              P/B Ratio
                                             PSR
                                                   EPS
     1442
                 2023-05-12
                                   1.47
                                           2.62 0.00
     2441
                 2023-04-28
                                   1.92
                                           2.11 2.05
     2645
                2023-05-15
                                  2.65
                                          2.68 0.86
     2762
            -KY 2023-08-25
                                   NaN
                                           NaN 1.89
     3447
                                   2.39
                                           0.62 0.43
                 2023-05-05
     4569
                2023-06-28
                                   {\tt NaN}
                                           NaN 2.67
     5292
                 2023-06-28
                                   2.46
                                           1.26 1.93
     6526
                 2023-05-11
                                    NaN
                                            NaN 7.23
     6606
                2023-05-12
                                  1.83
                                          3.07 0.26
     6657
                 2023-05-12
                                   3.47
                                         445.93 -0.46
                                   1.40
                                            NaN 0.77
     6658
                 2023-05-12
     6742
                                  5.34
                                            NaN 0.21
                 2023-05-15
     6753
                2023-05-15
                                  2.90
                                          2.02 0.91
     6782
                 2022-07-18
                                  10.27
                                           5.19 2.82
     6805
                 2023-04-25
                                  8.41
                                          3.51 2.75
     6835
                 2023-05-11
                                   2.70
                                           1.10 1.11
                                          2.74 1.04
     6861
                2022-07-14
                                  7.58
                                            NaN 1.02
     6863
          -KY
                 2023-05-10
                                    NaN
                                  4.08
                                           NaN 0.44
     6869
                2023-05-15
                                   NaN
                                           NaN 5.69
     6901
                2023-05-15
     6906
                 2023-06-16
                                   NaN
                                           NaN 1.73
     6916
                 2023-07-28
                                    NaN
                                            NaN 0.37
     6933 AMAX-KY 2023-09-01
                                     NaN
                                             NaN 1.31
[6]: data_seasonal = merge_feature_data(selected_features, price,_
      →return_mode='simple')
     data_seasonal = data_seasonal[data_seasonal.index.get_level_values(3) <__
      data_seasonal
[6]:
                                                ROA
                                                     EBITDA
                                                               ROE
                                                                   Gross Profit
     1101
              2015-05-15 2015-05-15 2015-03 0.07
                                                     17.52 0.12
                                                                          13.34 \
     1102
              2015-05-15 2015-05-15 2015-03 1.92
                                                     24.17 3.33
                                                                          10.63
```

```
1103
         2015-05-13 2015-05-13 2015-03 -1.91 -10.98 -3.34
                                                                  -11.27
1104
         2015-05-14 2015-05-14 2015-03 1.57
                                                                    8.30
                                               23.09 1.93
1108
         2015-05-14 2015-05-14 2015-03 1.89
                                               23.41 3.34
                                                                   20.98
9944
         2024-05-13 2024-05-13 2024-03 4.12
                                               35.86 7.06
                                                                   43.28
        2024-05-13 2024-05-13 2024-03 5.51 142.72 9.41
                                                                  25.53
9945
9946
        2024-05-10 2024-05-10 2024-03 1.02
                                              16.02 2.40
                                                                  29.02
         2024-05-08 2024-05-08 2024-03 -1.04 -2.54 -2.28
9955
                                                                  -0.81
9958
        2024-05-14 2024-05-14 2024-03 3.56
                                                                  37.76
                                              46.44 8.33
                                         Revenue Growth
         2015-05-15 2015-05-15 2015-03
1101
                                                -19.75 \
1102
         2015-05-15 2015-05-15 2015-03
                                                -5.50
1103
         2015-05-13 2015-05-13 2015-03
                                                -34.14
         2015-05-14 2015-05-14 2015-03
1104
                                                -3.75
1108
         2015-05-14 2015-05-14 2015-03
                                                  5.54
         2024-05-13 2024-05-13 2024-03
9944
                                                 20.02
9945
        2024-05-13 2024-05-13 2024-03
                                                11.16
        2024-05-10 2024-05-10 2024-03
                                                90.84
9946
9955
        2024-05-08 2024-05-08 2024-03
                                                  3.92
9958
        2024-05-14 2024-05-14 2024-03
                                                17.71
                                         Net Operating Revenue P/E Ratio
         2015-05-15 2015-05-15 2015-03
1101
                                                   21440142.0
                                                                    8.53 \
1102
         2015-05-15 2015-05-15 2015-03
                                                   15362530.0
                                                                   11.69
1103
         2015-05-13 2015-05-13 2015-03
                                                     671355.0
                                                                  164.13
1104
         2015-05-14 2015-05-14 2015-03
                                                                   12.26
                                                    1327430.0
1108
         2015-05-14 2015-05-14 2015-03
                                                    1286874.0
                                                                    8.25
         2024-05-13 2024-05-13 2024-03
                                                     732915.0
                                                                   14.98
9944
        2024-05-13 2024-05-13 2024-03
                                                                   7.02
9945
                                                   7000524.0
9946
        2024-05-10 2024-05-10 2024-03
                                                    301274.0
                                                                  62.91
9955
         2024-05-08 2024-05-08 2024-03
                                                    272888.0
                                                                 -888.00
9958
        2024-05-14 2024-05-14 2024-03
                                                   3148958.0
                                                                  20.65
                                        P/B Ratio
                                                     PSR
                                                           EPS ...
                                                                        Low
1101
         2015-05-15 2015-05-15 2015-03
                                             1.38 1.44 0.22
                                                                   19.8760 \
1102
         2015-05-15 2015-05-15 2015-03
                                             0.90 1.73 0.47 ...
                                                                   22.2065
1103
         2015-05-13 2015-05-13 2015-03
                                             0.64 2.99 -0.29
                                                                    9.6345
1104
         2015-05-14 2015-05-14 2015-03
                                             1.14 3.15 0.43 ...
                                                                   16.1193
1108
         2015-05-14 2015-05-14 2015-03
                                             0.94 0.87 0.39 ...
                                                                   7.1083
         2024-05-13 2024-05-13 2024-03
9944
                                             0.61
                                                    NaN 1.53 ...
                                                                   20.2977
```

9945 9946 9955 9958	2024-05-13 2024-05-13 2024-03 2024-05-10 2024-05-10 2024-03 2024-05-08 2024-05-08 2024-03 2024-05-14 2024-05-14 2024-03	0.97 1.24 1.99 4.77	NaN 2.46 NaN 0.12 NaN -0.31 NaN 2.66	39.5778 36.6500 29.9000 239.5000
		Close	Volume Qu	oteVolume
1101	2015-05-15 2015-05-15 2015-03	19.9464	4962	211254 \
1102	2015-05-15 2015-05-15 2015-03	22.2356	1848	70740
1103	2015-05-13 2015-05-13 2015-03	9.6688	115	1617
1104	2015-05-14 2015-05-14 2015-03	16.2286	326	9707
1108	2015-05-14 2015-05-14 2015-03	7.1425	546	5757
		•••	••	•••
9944	2024-05-13 2024-05-13 2024-03	20.9791	1017	21658
9945	2024-05-13 2024-05-13 2024-03	42.4808	45390	1940083
9946	2024-05-10 2024-05-10 2024-03	36.9000	2294	85828
9955	2024-05-08 2024-05-08 2024-03	30.6000	1207	36566
9958	2024-05-14 2024-05-14 2024-03	248.5000	17047	4206198
		${\tt MarketCap}$	YSTD Clos	e TMR Close
1101	2015-05-15 2015-05-15 2015-03	156917	20.0402	20.1810 \
1101	2015-05-15 2015-05-15 2015-03	128407	22.3229	•
1102	2015-05-13 2015-05-13 2015-03	10953	9.6345	
1103	2015-05-14 2015-05-14 2015-03	18294	16.3925	
1104	2015-05-14 2015-05-14 2015-03	4230	7.2108	
	2013-03-14 2013-03-14 2013-03	4230 	7.2100 	7.4109
 9944	2024-05-13 2024-05-13 2024-03	 2351	 20.5897	21.6606
9945	2024-05-13 2024-05-13 2024-03	124861	39.1907	41.2712
9946	2024-05-10 2024-05-10 2024-03	12050	36.7000	38.0000
9955	2024-05-08 2024-05-08 2024-03	3158	30.8000	
9958	2024-05-14 2024-05-14 2024-03	63839	236.0000	240.5000
		Daily Retu	ırn YSTD C	lose Shift
1101	2015-05-15 2015-05-15 2015-03	0.01169	93	16.9923 \
1102	2015-05-15 2015-05-15 2015-03	0.0091		20.1983
1103	2015-05-13 2015-05-13 2015-03	-0.01429		7.3373
1104	2015-05-14 2015-05-14 2015-03	-0.01356		13.6826
1108	2015-05-14 2015-05-14 2015-03	0.03756		7.2350
•••		•••		•••
9944	2024-05-13 2024-05-13 2024-03	0.03196	68	NaN
9945	2024-05-13 2024-05-13 2024-03	-0.02888	37	NaN
9946	2024-05-10 2024-05-10 2024-03	0.02937	5	NaN
9955	2024-05-08 2024-05-08 2024-03	-0.04000	05	NaN
9958	2024-05-14 2024-05-14 2024-03	-0.03272	23	NaN

Seasonal Return

```
1101
         2015-05-15 2015-05-15 2015-03
                                              -0.158005
         2015-05-15 2015-05-15 2015-03
1102
                                              -0.099869
1103
         2015-05-13 2015-05-13 2015-03
                                              -0.230213
         2015-05-14 2015-05-14 2015-03
1104
                                              -0.145372
1108
         2015-05-14 2015-05-14 2015-03
                                              -0.024394
9944
         2024-05-13 2024-05-13 2024-03
                                                    NaN
9945
        2024-05-13 2024-05-13 2024-03
                                                    NaN
        2024-05-10 2024-05-10 2024-03
9946
                                                   NaN
9955
        2024-05-08 2024-05-08 2024-03
                                                    NaN
9958
        2024-05-14 2024-05-14 2024-03
                                                    NaN
```

[33706 rows x 22 columns]

1.3 Imputing Data & Feature Transformation

```
[7]: def scale_data(data):
         returns_preserved = data['Seasonal Return'] #preseve return from any_
      \hookrightarrow modification
         data_scaled = pd.DataFrame(scale(data), index = data.index, columns = data.
       ⇔columns) #scaling data
         data_scaled['Seasonal Return'] = returns_preserved #append back preserved_
      \rightarrowreturn
         return data_scaled
     def impute_data(data):
         returns_preserved = data['Seasonal Return'] #preseve return from any_
      \hookrightarrow modification
         #imp = SimpleImputer(strategy='mean') #imputing data
         #imp.fit(data)
         \#data\_imputed = pd.DataFrame(imp.transform(data), index = data.index, 
      \hookrightarrow columns = data.columns)
         data_imputed = data.groupby(' ').fillna(method='ffill').fillna(0)
         data_imputed['Seasonal Return'] = returns_preserved #append back preserved_
       \rightarrowreturn
         return data_imputed
     data_scaled = scale_data(data_seasonal)
     data_imputed = impute_data(data_scaled)
```

data_imputed

[7]:		ROA EBITDA ROE
1101 1102 1103 1104 1108	2015-05-15 2015-05-15 2015-03 2015-05-13 2015-05-13	-0.917074 0.019013 -0.408155 0.177063 0.027109 0.023169
9944 9945 9946 9955 9958	2024-05-13 2024-05-13 2024-03 2024-05-13 2024-05-13 2024-03 2024-05-10 2024-05-10 2024-03 2024-05-08 2024-05-08 2024-03 2024-05-14 2024-05-14 2024-03	0.978800 0.030143 0.443035 1.415826 0.055533 0.635372
		Gross Profit Revenue Growth
1101 1102 1103 1104 1108	2015-05-15 2015-05-15 2015-03 2015-05-15 2015-05-15 2015-03 2015-05-13 2015-05-13 2015-03 2015-05-14 2015-05-14 2015-03 2015-05-14 2015-05-14 2015-03	-0.266273 -0.019715 -0.765507 -0.020541 -0.319388 -0.019665
 9944 9945	2024-05-13 2024-05-13 2024-03 2024-05-13 2024-05-13 2024-03	 0.478019 -0.018980 0.073389 -0.019235
9946 9955 9958	2024-05-10 2024-05-10 2024-03 2024-05-08 2024-05-08 2024-03 2024-05-14 2024-05-14 2024-03	0.152947 -0.016939 -0.527060 -0.019444 0.352185 -0.019046
		Net Operating Revenue P/E Ratio
1101 1102 1103 1104 1108	2015-05-15 2015-05-15 2015-03 2015-05-15 2015-05-15 2015-03 2015-05-13 2015-05-13 2015-03 2015-05-14 2015-05-14 2015-03 2015-05-14 2015-05-14 2015-03	0.233157 -0.005899 \ 0.118179 -0.005690 -0.159753 0.004362 -0.147342 -0.005653 -0.148109 -0.005917
 9944 9945 9946 9955 9958	2024-05-13 2024-05-13 2024-03 2024-05-13 2024-05-13 2024-03 2024-05-10 2024-05-10 2024-03 2024-05-08 2024-05-08 2024-03 2024-05-14 2024-05-14 2024-03	 -0.158589 -0.005473 -0.040016 -0.005998 -0.166755 -0.002313 -0.167292 -0.065016 -0.112881 -0.005099
		P/B Ratio PSR EPS
1101	2015-05-15 2015-05-15 2015-03	-0.170762 -0.020352 -0.266448 \

```
1102
         2015-05-15 2015-05-15 2015-03 -0.331009 -0.020091 -0.154279
1103
         2015-05-13 2015-05-13 2015-03 -0.417809 -0.018957 -0.495273
1104
         2015-05-14 2015-05-14 2015-03 -0.250886 -0.018813 -0.172226
1108
         2015-05-14 2015-05-14 2015-03 -0.317655 -0.020865 -0.190173
9944
         2024-05-13 2024-05-13 2024-03
                                       -0.427825 -0.020784 0.321317
        2024-05-13 2024-05-13 2024-03 -0.307640 -0.018417 0.738586 ...
9945
9946
        2024-05-10 2024-05-10 2024-03 -0.217501 -0.020073 -0.311316
9955
         2024-05-08 2024-05-08 2024-03
                                         0.032884 -0.019866 -0.504247
        2024-05-14 2024-05-14 2024-03
                                        0.960979 -0.019641 0.828322 ...
9958
                                              Low
                                                      Close
                                                               Volume
1101
         2015-05-15 2015-05-15 2015-03 -0.235234 -0.236312 0.108401 \
         2015-05-15 2015-05-15 2015-03 -0.217862 -0.219533 -0.113658
1102
1103
         2015-05-13 2015-05-13 2015-03 -0.311580 -0.311641 -0.237239
1104
         2015-05-14 2015-05-14 2015-03 -0.263239 -0.263561 -0.222192
         2015-05-14 2015-05-14 2015-03 -0.330412 -0.330158 -0.206504
1108
9944
         2024-05-13 2024-05-13 2024-03 -0.232091 -0.228743 -0.172917
        2024-05-13 2024-05-13 2024-03 -0.088366 -0.071146 2.991324
9945
        2024-05-10 2024-05-10 2024-03 -0.110192 -0.112051 -0.081854
9946
9955
         2024-05-08 2024-05-08 2024-03 -0.160510 -0.158226 -0.159368
        2024-05-14 2024-05-14 2024-03 1.401962 1.438870 0.970183
9958
                                         QuoteVolume MarketCap YSTD Close
1101
         2015-05-15 2015-05-15 2015-03
                                                      0.316707
                                          -0.001699
                                                                 -0.235800 \
1102
         2015-05-15 2015-05-15 2015-03
                                          -0.110853
                                                      0.238410
                                                                 -0.219039
         2015-05-13 2015-05-13 2015-03
1103
                                          -0.164550 -0.084153
                                                                 -0.312203
1104
         2015-05-14 2015-05-14 2015-03
                                          -0.158265
                                                    -0.063993
                                                                 -0.262583
         2015-05-14 2015-05-14 2015-03
1108
                                          -0.161334
                                                                 -0.329999
                                                     -0.102617
                                               ...
                                                        ...
         2024-05-13 2024-05-13 2024-03
9944
                                          -0.148981
                                                    -0.107777
                                                                 -0.231765
9945
        2024-05-13 2024-05-13 2024-03
                                          1.341296
                                                     0.228672
                                                                -0.095188
9946
        2024-05-10 2024-05-10 2024-03
                                         -0.099133 -0.081141
                                                                -0.113476
9955
         2024-05-08 2024-05-08 2024-03
                                          -0.137400 -0.105561
                                                                 -0.156796
9958
        2024-05-14 2024-05-14 2024-03
                                                     0.061087
                                          3.101668
                                                                 1.349875
                                         TMR Close Daily Return
1101
         2015-05-15 2015-05-15 2015-03 -0.235562
                                                       0.411461 \
         2015-05-15 2015-05-15 2015-03 -0.218958
1102
                                                       0.322769
1103
         2015-05-13 2015-05-13 2015-03 -0.313860
                                                      -0.484015
1104
         2015-05-14 2015-05-14 2015-03 -0.266228
                                                      -0.458857
         2015-05-14 2015-05-14 2015-03 -0.329415
1108
                                                       1.303011
```

```
9944
         2024-05-13 2024-05-13 2024-03 -0.224683
                                                        1.110188
9945
        2024-05-13 2024-05-13 2024-03 -0.080500
                                                      -0.987010
9946
        2024-05-10 2024-05-10 2024-03 -0.104551
                                                       1.020807
9955
         2024-05-08 2024-05-08 2024-03 -0.167781
                                                       -1.370159
9958
        2024-05-14 2024-05-14 2024-03
                                         1.384293
                                                      -1.119188
                                         YSTD Close Shift Seasonal Return
         2015-05-15 2015-05-15 2015-03
                                                -0.258452
                                                                 -0.158005
1101
1102
         2015-05-15 2015-05-15 2015-03
                                                -0.235087
                                                                 -0.099869
1103
         2015-05-13 2015-05-13 2015-03
                                                -0.328816
                                                                 -0.230213
1104
         2015-05-14 2015-05-14 2015-03
                                                -0.282572
                                                                 -0.145372
1108
         2015-05-14 2015-05-14 2015-03
                                                -0.329562
                                                                 -0.024394
9944
         2024-05-13 2024-05-13 2024-03
                                               -0.232235
                                                                       NaN
        2024-05-13 2024-05-13 2024-03
9945
                                               -0.096673
                                                                      NaN
9946
        2024-05-10 2024-05-10 2024-03
                                              -0.114825
                                                                      NaN
9955
         2024-05-08 2024-05-08 2024-03
                                               -0.157824
                                                                       NaN
9958
        2024-05-14 2024-05-14 2024-03
                                                1.337642
                                                                      NaN
[33706 rows x 22 columns]
```

1.4 Labeling

```
[9]: #compute period mean
data_imputed = data_imputed.sort_index(level=2)
```

```
→Return'].transform('median')
      print(data_imputed['Cross Section Median'])
     1414
              2015-04-22 2015-04-22 2015-03
                                                -0.145550
     3504
             2015-04-24 2015-04-24 2015-03
                                               -0.145550
     1560
              2015-04-28 2015-04-28 2015-03
                                                -0.145550
     2308
             2015-04-28 2015-04-28 2015-03
                                               -0.145550
     2455
              2015-04-28 2015-04-28 2015-03
                                                -0.145550
     2886
             2024-05-28 2024-05-28 2024-03
                                               -0.130183
     2888
             2024-05-28 2024-05-28 2024-03
                                               -0.130183
     2892
             2024-05-28 2024-05-28 2024-03
                                               -0.130183
     5880
             2024-05-28 2024-05-28 2024-03
                                               -0.130183
             2024-05-29 2024-05-29 2024-03
     2880
                                               -0.130183
     Name: Cross Section Median, Length: 33706, dtype: float64
[10]: data_imputed = data_imputed.sort_index(level=2)
      data imputed
[10]:
                                               1
                                                       ROA
                                                              EBITDA
                                                                           ROE
      1414
             2015-04-22 2015-04-22 2015-03 1.0 -0.470616 0.021508 -0.196176
      3504
             2015-04-24 2015-04-24 2015-03 1.0 -0.410878 0.023525 -0.170804
      1560
             2015-04-28 2015-04-28 2015-03 1.0 0.588936 0.028007 0.181131
      2308
             2015-04-28 2015-04-28 2015-03
                                            1.0 0.114181 0.025490
                                                                     0.077187
      2455
             2015-04-28 2015-04-28 2015-03 1.0 0.739851 0.030872 0.176220
      2886
             2024-05-28 2024-05-28 2024-03 1.0 -0.206514
                                                           0.000000 0.231056
             2024-05-28 2024-05-28 2024-03
      2888
                                           1.0 -0.219090
                                                           0.000000
                                                                     0.360372
                                            1.0 -0.241099
      2892
             2024-05-28 2024-05-28 2024-03
                                                           0.000000
                                                                     0.217143
             2024-05-28 2024-05-28 2024-03
      5880
                                            1.0 -0.269395
                                                           0.000000
                                                                     0.097648
      2880
             2024-05-29 2024-05-29 2024-03 1.0 -0.241099
                                                           0.000000
                                                                     0.236785
                                             Gross Profit Revenue Growth
      1414
             2015-04-22 2015-04-22 2015-03
                                               -0.525465
                                                                -0.019848 \
      3504
             2015-04-24 2015-04-24 2015-03
                                                0.079543
                                                               -0.019914
             2015-04-28 2015-04-28 2015-03
      1560
                                                0.204466
                                                               -0.019586
      2308
             2015-04-28 2015-04-28 2015-03
                                                0.084103
                                                               -0.019545
      2455
             2015-04-28 2015-04-28 2015-03
                                                0.380908
                                                               -0.018417
             2024-05-28 2024-05-28 2024-03
                                                0.000000
      2886
                                                               -0.018903
      2888
             2024-05-28 2024-05-28 2024-03
                                                0.000000
                                                               -0.009777
      2892
             2024-05-28 2024-05-28 2024-03
                                                0.000000
                                                               -0.019396
      5880
             2024-05-28 2024-05-28 2024-03
                                                0.000000
                                                               -0.019351
```

data_imputed['Cross Section Median'] = data_imputed.groupby(' ')['Seasonal_

```
2880
       2024-05-29 2024-05-29 2024-03
                                        0.000000
                                                      -0.019141
                                      Net Operating Revenue P/E Ratio
1414
       2015-04-22 2015-04-22 2015-03
                                                -0.166836 0.023815 \
3504
       2015-04-24 2015-04-24 2015-03
                                                -0.152578 -0.004615
       2015-04-28 2015-04-28 2015-03
1560
                                                -0.153212 -0.005765
2308
       2015-04-28 2015-04-28 2015-03
                                                 0.644874 -0.005229
2455
       2015-04-28 2015-04-28 2015-03
                                                -0.162526 -0.005453
2886
       2024-05-28 2024-05-28 2024-03
                                                 0.251802 -0.005432
2888
       2024-05-28 2024-05-28 2024-03
                                                 0.174929 -0.002654
2892
       2024-05-28 2024-05-28 2024-03
                                                 0.181826 -0.005583
5880
       2024-05-28 2024-05-28 2024-03
                                                 0.126461 -0.005339
       2024-05-29 2024-05-29 2024-03
2880
                                                 0.136458 -0.005695
                                      P/B Ratio
                                                     PSR ...
1414
       2015-04-22 2015-04-22 2015-03 -0.441179 -0.020397 ...
3504
       2015-04-24 2015-04-24 2015-03 -0.050577 -0.020334
1560
       2308
2455
       2015-04-28 2015-04-28 2015-03
                                      0.253223 -0.017733
       2024-05-28 2024-05-28 2024-03 -0.090639 -0.014988
2886
2888
       2024-05-28 2024-05-28 2024-03 -0.471225 -0.016788 ...
2892
       2024-05-28 2024-05-28 2024-03 -0.147393 -0.016815
       2024-05-28 2024-05-28 2024-03 -0.110670 -0.015888 ...
5880
2880
       2024-05-29 2024-05-29 2024-03 -0.147393 -0.017220
                                      P/B Ratio EPS P/B Ratio MarketCap
1414
       2015-04-22 2015-04-22 2015-03
                                          0.174956
                                                              0.048212 \
3504
       2015-04-24 2015-04-24 2015-03
                                         0.014838
                                                             0.004789
       2015-04-28 2015-04-28 2015-03
1560
                                          0.017975
                                                             -0.013948
2308
       2015-04-28 2015-04-28 2015-03
                                         0.310235
                                                             1.058170
2455
       2015-04-28 2015-04-28 2015-03
                                         -0.031114
                                                             -0.022549
2886
       2024-05-28 2024-05-28 2024-03
                                         0.000563
                                                            -0.132321
       2024-05-28 2024-05-28 2024-03
2888
                                         0.129786
                                                            -0.126557
       2024-05-28 2024-05-28 2024-03
2892
                                         0.019433
                                                            -0.137809
5880
       2024-05-28 2024-05-28 2024-03
                                         0.022536
                                                            -0.104489
2880
       2024-05-29 2024-05-29 2024-03
                                         0.026708
                                                            -0.121499
                                         PSR<sup>2</sup>
                                                PSR EPS PSR MarketCap
1414
       2015-04-22 2015-04-22 2015-03 0.000416 0.008089
                                                             0.002229 \
```

```
2308
             2015-04-28 2015-04-28 2015-03 0.000376 -0.006749
                                                                      -0.023020
      2455
              2015-04-28 2015-04-28 2015-03 0.000314 0.002179
                                                                       0.001579
      2886
             2024-05-28 2024-05-28 2024-03 0.000225 0.000093
                                                                      -0.021880
             2024-05-28 2024-05-28 2024-03 0.000282 0.004624
      2888
                                                                      -0.004509
      2892
             2024-05-28 2024-05-28 2024-03
                                             0.000283 0.002217
                                                                      -0.015722
      5880
             2024-05-28 2024-05-28 2024-03
                                             0.000252 0.003235
                                                                      -0.015001
             2024-05-29 2024-05-29 2024-03
      2880
                                             0.000297 0.003120
                                                                      -0.014195
                                                  EPS^2 EPS MarketCap MarketCap^2
      1414
              2015-04-22 2015-04-22 2015-03 0.157263
                                                             0.043336
                                                                          0.011942 \
      3504
             2015-04-24 2015-04-24 2015-03
                                             0.086065
                                                            0.027779
                                                                          0.008966
      1560
              2015-04-28 2015-04-28 2015-03 0.013208
                                                            -0.010249
                                                                          0.007953
      2308
             2015-04-28 2015-04-28 2015-03
                                             0.121270
                                                            0.413634
                                                                          1.410850
              2015-04-28 2015-04-28 2015-03 0.015098
      2455
                                                             0.010941
                                                                          0.007929
             2024-05-28 2024-05-28 2024-03
                                                           -0.009075
      2886
                                             0.000039
                                                                          2.131222
             2024-05-28 2024-05-28 2024-03
      2888
                                             0.075857
                                                           -0.073970
                                                                          0.072130
             2024-05-28 2024-05-28 2024-03
      2892
                                                           -0.123272
                                             0.017383
                                                                          0.874180
             2024-05-28 2024-05-28 2024-03
      5880
                                             0.041467
                                                           -0.192261
                                                                          0.891422
             2024-05-29 2024-05-29 2024-03
      2880
                                             0.032833
                                                           -0.149366
                                                                          0.679498
                                               Seasonal Return Cross Section Median
      1414
              2015-04-22 2015-04-22 2015-03
                                                    -0.116454
                                                                          -0.145550
      3504
             2015-04-24 2015-04-24 2015-03
                                                   -0.469792
                                                                          -0.145550
              2015-04-28 2015-04-28 2015-03
      1560
                                                    -0.107103
                                                                          -0.145550
             2015-04-28 2015-04-28 2015-03
      2308
                                                   -0.109211
                                                                          -0.145550
      2455
              2015-04-28 2015-04-28 2015-03
                                                     0.209268
                                                                          -0.145550
      2886
             2024-05-28 2024-05-28 2024-03
                                                         NaN
                                                                          -0.130183
             2024-05-28 2024-05-28 2024-03
      2888
                                                         NaN
                                                                          -0.130183
      2892
             2024-05-28 2024-05-28 2024-03
                                                         {\tt NaN}
                                                                          -0.130183
             2024-05-28 2024-05-28 2024-03
      5880
                                                         \mathtt{NaN}
                                                                          -0.130183
             2024-05-29 2024-05-29 2024-03
      2880
                                                         {\tt NaN}
                                                                          -0.130183
      [33706 rows x 80 columns]
[11]: |\#data\_train, data\_test = train\_test\_split(data\_imputed, test\_size = 0.5,
      ⇔random state=0, shuffle=False)
      data_train = data_imputed[data_imputed.index.get_level_values(3) < '2022-01']</pre>
      data_test = data_imputed[data_imputed.index.get_level_values(3) >= '2022-01']
      X_train = data_train.drop(columns = ['Seasonal Return', 'Cross Section Median'])
```

2015-04-24 2015-04-24 2015-03 0.000413 0.005965

2015-04-28 2015-04-28 2015-03 0.000388 -0.002265

0.001925

0.001757

3504

1560

1.5 Hyperparameter Tuning

```
[12]: from sklearn.model_selection import GridSearchCV, RandomizedSearchCV

param_grid = {
    'max_depth': [3, 5, 7, 9],
    #'learning_rate': [10e-3, 10e-2, 0.1, 0.2, 0.3],
    'gamma': [5, 10, 20, 50],
    'reg_lambda': [0.1, 0.5, 1, 2, 3, 5],
    'n_estimators': [20, 30, 50]
}

gs = GridSearchCV(estimator=reg, param_grid=param_grid, verbose=3, use of scoring='neg_log_loss')
```

```
[]: gs.fit(X_train, Y_train)
gs.best_params_
```

```
[12]: from hyperopt import hp, tpe, fmin, Trials, STATUS_OK
from sklearn.model_selection import cross_val_score

def objective(params):
    clf = xgboost.XGBClassifier(**params)
```

```
score = cross_val_score(clf, X_train, Y_train, cv=5,_
       ⇔scoring='neg_log_loss').mean()
          return {'loss': -score, 'status': STATUS_OK}
      space = {
                  'max_depth': hp.choice('max_depth', np.arange(2, 30, dtype=int)),
                  'min_child_weight': hp.choice('min_child_weight', np.arange(1, 10, 
       ⇔dtype=int)),
                   'gamma': hp.uniform ('gamma', 1, 20),
                  'reg_alpha' : hp.quniform('reg_alpha', 0,140,1),
                  'reg lambda': hp.uniform('reg lambda', 0,10),
                  'colsample_bytree' : hp.uniform('colsample_bytree', 0.5,1),
                  'n_estimators': 180, #hp.choice('n_estimators', np.arange(1, 20, __
       \hookrightarrow dtype=int)),
                  'seed': 0
              }
[13]: trials = Trials()
      best_hyperparams = fmin(fn = objective,
                              space = space,
                              algo = tpe.suggest,
                              max_evals = 100,
                              trials = trials)
                | 100/100 [04:25<00:00, 2.66s/trial, best loss:
     100%
     0.6876974589855377]
[15]: best_hyperparams
[15]: {'colsample_bytree': 0.9941679686986813,
       'gamma': 8.345541202401616,
       'max_depth': 10,
       'min_child_weight': 2,
       'reg_alpha': 13.0,
       'reg_lambda': 5.341515870496687}
     1.6 Fitting Model
[25]: #req = LogisticRegression(max iter = 2000)
      best_hyperparams = {'colsample_bytree': 0.6169348558201411,
       'gamma': 1.148536867913755,
       'max_depth': 2,
       'min_child_weight': 8,
       'reg_alpha': 32.0,
```

```
'reg_lambda': 9.998837996054778}
reg = xgboost.XGBClassifier(**best_hyperparams, n_estimators = 180) #max_depth = 2, n_estimators = 20, gamma = 10, reg_lambda = 0.1)
reg.fit(X_train, Y_train)
```

```
[25]: XGBClassifier(base_score=None, booster=None, callbacks=None, colsample_bylevel=None, colsample_bynode=None, colsample_bytree=0.6169348558201411, device=None, early_stopping_rounds=None, enable_categorical=False, eval_metric=None, feature_types=None, gamma=1.148536867913755, grow_policy=None, importance_type=None, interaction_constraints=None, learning_rate=None, max_bin=None, max_cat_threshold=None, max_cat_to_onehot=None, max_delta_step=None, max_depth=2, max_leaves=None, min_child_weight=8, missing=nan, monotone_constraints=None, multi_strategy=None, n_estimators=180, n_jobs=None, num_parallel_tree=None, random_state=None, ...)
```

```
[26]: score_insample = reg.score(X_train, Y_train)
score_outsample = reg.score(X_test, Y_test)

print(f'In sample score: {score_insample}')
print(f'Out sample score: {score_outsample}')
```

In sample score: 0.5648429990387697 Out sample score: 0.5619134813458457

1.7 Backtest

```
[27]: def return summary(series):
         mean = series.mean()
         std = series.std()
         sharpe = mean / std
         annual sharpe = sharpe * (252)**(0.5)
         annual_return_simple = mean*252
         annual_return_compounded = np.exp(mean*252)-1
         print(f'Annual Sharpe: {annual_sharpe}')
         print(f'Annual Return (Simple): {annual_return_simple}')
         print(f'Annual Return (Compounded): {annual_return_compounded}')
     def backtest_daily_stocksort(q = 10, market_cap_lb = 0, market_cap_ub = np.inf):
         history = data_imputed.copy()
         history['Probability'] = reg.predict_proba(history.drop(columns =__
      history = history.reset index()
         history.set_index([' ', ' '], inplace=True)
```

```
history_merged = price[['MarketCap', 'Daily Return']].
omerge(history[['Probability']], left_index=True, right_index=True,__
⇔how='outer')
  preserved return = history merged['Daily Return']
  history_merged = history_merged.groupby(' ').fillna(method='ffill')
  history merged['Daily Return'] = preserved return.groupby(' ').shift(-1) #_
⇒shift return to ensure that there is no look ahead bias
  history_merged.reset_index(inplace=True)
  history_merged.fillna(0, inplace=True)
  dates = sorted(list(set(history_merged[' '])))
  quantiles = []
  for x in range(q):
      quantiles.append([])
  for date in dates:
      print(date)
      current_stocks = history_merged[(history_merged[' '] == date) &__
current_stocks.sort_values(by='Probability', ascending=False,_
→inplace=True)
      #current_stocks['Probability'].replace(to_replace = 0, value = np.nan, ___
\hookrightarrow inplace = True)
      #current_stocks['Quantile'] = pd.qcut(current_stocks['Probability'], q,__
⇔labels=False, duplicates='drop') + 1
      current stocks['Quantile'] = pd.qcut(current stocks['Probability'].
→rank(method='first'), q, labels=False, duplicates='drop')
      for x in range(q):
          buy_stock = current_stocks[(current_stocks['Quantile'] == x)] # &_
→ (current_stocks['MarketCap'] > market_cap_lb)]
          if x == q-1 or x == 0:
              print(f'Quantile {x} buy stocks: ' + str(list(buy_stock[' '])))
              print(f'Stock bought: {len(list(buy_stock[" "]))}')
          mean = buy_stock['Daily Return'].mean()
          quantiles[x].append(mean)
  pd_quantiles = []
  for quantile in quantiles:
      pd_quantiles.append(pd.Series(quantile, index = dates))
```

```
portfolio = pd.concat(pd_quantiles, axis=1)
         return portfolio
     def plot_portfolio(portfolio, long = 0, short = 0, tc = 0.0001):
         n = len(portfolio.columns)
         if not long:
             long = n - 1
         if not short:
             short = 0
         portfolio['long-short (self-financing)'] = (portfolio[long] -__
       →portfolio[short]) - tc
         portfolio['long-short'] = (portfolio[long] - portfolio[short])/2 - tc
         benchmark = yf.download('^TWII', start = '2015-05-15', end = '2024-07-17')
         tw_0050 = yf.download('0050.TW', start = '2015-05-15', end = '2024-07-17')
         twf = yf.download('00632R.TW', start = '2015-05-15', end = '2024-07-17')
         portfolio['benchmark'] = np.log(benchmark['Adj Close'] / benchmark['Adju

close'].shift(1)).shift(-1)

         portfolio['0050'] = np.log(tw_0050['Adj Close'] / tw_0050['Adj Close'].
       ⇒shift(1)).shift(-1)
         portfolio['reverse'] = np.log(twf['Adj Close'] / twf['Adj Close'].shift(1)).
       ⇒shift(-1)
         portfolio['alternative'] = (4*portfolio[long] + portfolio['reverse']) / 5 - [
       -tc
         #portfolio['synthesis'] = (portfolio['long-short'] + portfolio['0050'])/2
         for i in range(n):
             portfolio[i] = portfolio[i] - tc
         ((portfolio[['long-short', 'long-short (self-financing)', short, long, |

¬'alternative', 'benchmark', '0050']]-tc).cumsum() + 1).plot()

[28]: portfolio = backtest_daily_stocksort(q = 15, market_cap_lb=0)
     ((portfolio).cumsum() + 1).plot()
     2015-01-05 00:00:00
     Quantile 0 buy stocks: ['1101 ', '3356 ', '3229 ', '3231 ', '3257 ',
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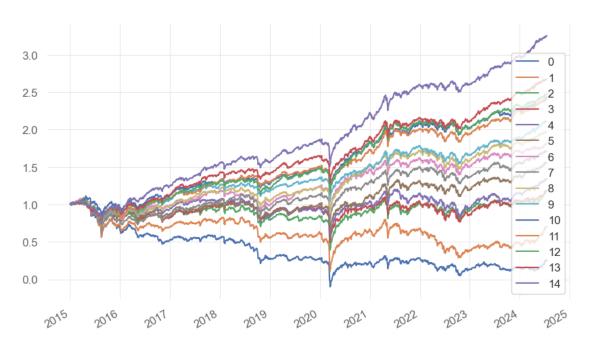
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Quantile 14 buy stocks: ['912000 -DR', '910322 -DR', '9944 ', '8499 -
KY', '5469 ', '2387 ', '6278 ', '1474 ', '1540 ', '2362 ', '1817
', '9945 ', '2474 ', '6807 -KY', '2609 ', '1539 ', '4930 ',
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 -KY', '1541 ', '5215 -KY', '4942 ', '6768 -KY', '1558 ', '6671 -
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', '2355 ', '3010 ', '2605 ', '5515 ', '4439 -KY', '1525 ']
Stock bought: 70
2024-07-15 00:00:00
Quantile 0 buy stocks: ['2321 ', '2390 ', '3018 ', '6706 ', '8201 ',
'1441 ', '1213 ', '2007 ', '6141 ', '6202 ', '4562 ', '4934 ',
'3518 ', '9912 ', '2438 ', '3047 ', '1721 ', '4540 ', '3321 ',
'6598 ABC-KY', '2208 ', '4190 -KY', '2465 ', '6153 ', '1436 ', '4142
 ', '2025 ', '5284 jpp-KY', '1533 ', '2314 ', '2548 ', '3041 ',
'5283 ', '3504 ', '9906 ', '3055 ', '2911 ', '2002A ', '6592A
    , '2888B ', '2883B ', '3702A ', '2887E ', '2887Z1
  ', '2887F ', '2891C ', '2348A ', '9941A ', '5871A -
KY', '2897A', '2888A', '1101B', '3036A', '6592B',
'2881B ', '2836A ', '2838A ', '2881A ', '8112A ', '1522A
  ', '1312A ', '2881C ', '2882B ', '2882A ', '6957 -KY',
'6952 ', '6928 ', '6890 -KY', '1563 ', '2891B
Stock bought: 70
Quantile 14 buy stocks: ['912000 -DR', '910322 -DR', '9944 ', '8499 -
KY', '5469 ', '2387 ', '6278 ', '1474 ', '1540 ', '2362 ', '1817
', '9945 ', '2474 ', '6807 -KY', '2609 ', '1539 ', '4930 ',
'2704 ', '1339 ', '1522 ', '4720 ', '6128 ', '2520 ', '2109 ',
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'911608 -DR', '2851 ', '2615 ', '9904 ', '2612 ', '6591 -KY', '6641
 -KY', '1541 ', '5215 -KY', '4942 ', '6768 -KY', '1558 ', '6671 -
KY', '2354 ', '4958 -KY', '2514 ', '2905 ', '2392 ', '5876 ',
'2834 ', '2492 ', '2617 ', '8103 ', '2107 ', '3015 ', '1402 ',
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'1416 ', '4569 -KY', '6191 ', '2897 ', '4440 ', '1702 ', '1439
', '2355 ', '3010 ', '2605 ', '5515 ', '4439 -KY', '1525 ']
Stock bought: 70
2024-07-16 00:00:00
Quantile 0 buy stocks: ['2321 ', '2390 ', '3018 ', '6706 ', '8201 ',
'1441 ', '1213 ', '2007 ', '6141 ', '6202 ', '4562 ', '4934 ',
'3518 ', '9912 ', '2438 ', '3047 ', '1721 ', '4540 ', '3321 ',
'6598 ABC-KY', '2208 ', '4190 -KY', '2465 ', '6153 ', '1436 ', '4142
', '2025 ', '5284 jpp-KY', '1533 ', '2314 ', '2548 ', '3041 ',
'5283 ', '3504 ', '9906 ', '3055 ', '2911 ', '2002A ', '6592A
  ', '2888B ', '2883B ', '3702A
                                   ', '2887E', '2887Z1
  ', '2887F ', '2891C ', '2348A ', '9941A ', '5871A -
KY ', '2897A ', '2888A ', '1101B ', '3036A ', '6592B ',
'2881B ', '2836A ', '2838A ', '2881A ', '8112A ', '1522A
  ', '1312A ', '2881C ', '2882B ', '2882A ', '6957 -KY',
'6952 ', '6928 ', '6890 -KY', '1563 ', '2891B ']
Stock bought: 70
Quantile 14 buy stocks: ['912000 -DR', '910322 -DR', '9944 ', '8499 -
KY', '5469 ', '2387 ', '6278 ', '1474 ', '1540 ', '2362 ', '1817
', '9945 ', '2474 ', '6807 -KY', '2609 ', '1539 ', '4930 ',
'2704 ', '1339 ', '1522 ', '4720 ', '6128 ', '2520 ', '2109 ',
'911608 -DR', '2851 ', '2615 ', '9904 ', '2612 ', '6591 -KY', '6641
 -KY', '1541 ', '5215 -KY', '4942 ', '6768 -KY', '1558 ', '6671 -
KY', '2354 ', '4958 -KY', '2514 ', '2905 ', '2392 ', '5876 ',
'2834 ', '2492 ', '2617 ', '8103 ', '2107 ', '3015 ', '1402 ',
'1307 ', '2489 ', '2393 ', '2472 ', '2852 ', '1516 ', '9935 ',
'1416 ', '4569 -KY', '6191 ', '2897 ', '4440 ', '1702 ', '1439
', '2355 ', '3010 ', '2605 ', '5515 ', '4439 -KY', '1525 ']
Stock bought: 70
2024-07-17 00:00:00
Quantile 0 buy stocks: ['2321 ', '2390 ', '3018 ', '6706 ', '8201 ',
'1441 ', '1213 ', '2007 ', '6141 ', '6202 ', '4562 ', '4934 ',
'3518 ', '9912 ', '2438 ', '3047 ', '1721 ', '4540 ', '3321 ',
'6598 ABC-KY', '2208 ', '4190 -KY', '2465 ', '6153 ', '1436 ', '4142
 ', '2025 ', '5284 jpp-KY', '1533 ', '2314 ', '2548 ', '3041 ',
'5283 ', '3504 ', '9906 ', '3055 ', '2911 ', '2002A ', '6592A
  ', '2888B ', '2883B ', '3702A ', '2887E ', '2887Z1
   '2887F ', '2891C ', '2348A ', '9941A ',
                                               '5871A -
KY', '2897A', '2888A', '1101B', '3036A', '6592B',
'2881B ', '2836A ', '2838A ', '2881A ', '8112A ', '1522A
  ', '1312A ', '2881C ', '2882B ', '2882A ', '6957 -KY',
'6952 ', '6928 ', '6890 -KY', '1563 ', '2891B ']
Stock bought: 70
```

Quantile 14 buy stocks: ['912000 -DR', '910322 -DR', '9944 ', '8499 -KY', '5469 ', '2387 ', '6278 ', '1474 ', '1540 ', '2362 ', '1817 ', '9945 ', '2474 ', '6807 -KY', '2609 ', '1539 ', '4930 ', '2704 ', '1339 ', '1522 ', '4720 ', '6128 ', '2520 ', '2109 ', '911608 -DR', '2851 ', '2615 ', '9904 ', '2612 ', '6591 -KY', '6641 -KY', '1541 ', '5215 -KY', '4942 ', '6768 -KY', '1558 ', '6671 -KY', '2354 ', '4958 -KY', '2514 ', '2905 ', '2392 ', '5876 ', '2834 ', '2492 ', '2617 ', '8103 ', '2107 ', '3015 ', '1402 ', '1307 ', '2489 ', '2393 ', '2472 ', '2852 ', '1516 ', '9935 ', '1416 ', '4569 -KY', '6191 ', '2897 ', '4440 ', '1702 ', '1439 ', '2355 ', '3010 ', '2605 ', '5515 ', '4439 -KY', '1525 '] Stock bought: 70

[28]: <Axes: >



```
[29]:

0.1425%
0.1425%
0.3%
0.585%
20*3 = 60
0.01%

plot_portfolio(portfolio, tc = 0.0001)
```

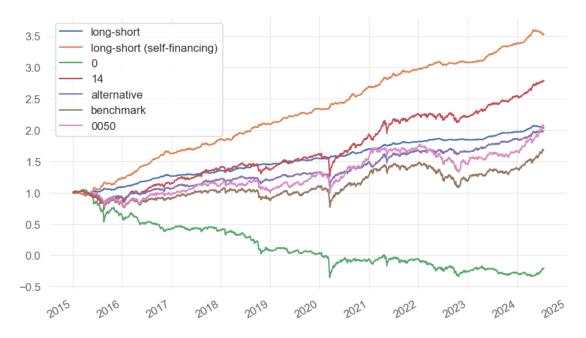
result = getattr(ufunc, method)(*inputs, **kwargs)

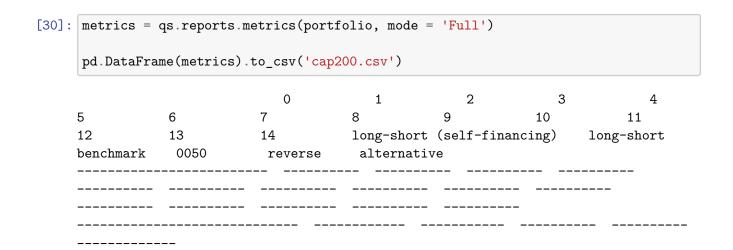
/Library/Frameworks/Python.framework/Versions/3.10/lib/python3.10/site-packages/pandas/core/arraylike.py:396: RuntimeWarning: invalid value encountered in log

result = getattr(ufunc, method)(*inputs, **kwargs)

/Library/Frameworks/Python.framework/Versions/3.10/lib/python3.10/site-packages/pandas/core/arraylike.py:396: RuntimeWarning: invalid value encountered in log

result = getattr(ufunc, method)(*inputs, **kwargs)





Start Perio	d	2015-05-	15 2015-05-	15 2015-05-	15 2015-05-	-15
	2015-05-15					
	2015-05-15					
	2015-05-1					
End Period				15 2024-07-		-15
	2024-07-15					
	2024-07-15					
	2024-07-1					
						0.0%
U UN	ate 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	0.0%				0.0,	/ 0
U.U%	0.0%	100 0%	100.0%	100.0%	100.0%	
11me In Mar	ket 100.0%	100.0%	100.0%	100.0%	100.0%	100 0%
					100.0%	100.0%
	100.0%					
100.0%	100.0%	97.0%	93.0%	100.0%		
Cumulative	Return	-63.59%	-44.40%	-14.01%	-10.11%	0.20%
	64.23%					
221.93%	303.60%	605.16%	1,430.78%		252	.30%
120.66%	218.99%	-88.30%	211.21%			
CAGR		-7.32%	-4.32%	-1.13%	-0.8%	0.01%
	3.8%					
	11.07%			,	9.94	
	9.12%					-70
	,,					
Sharpe				-0.02		
0.23	0.44			0.71	0.89	0.97
0.96	1.16	1.54	4.15		3.8	1
	0.84					
-	e Ratio					
59.88%	74.93%	90.15%	87.69%	94.19%	97.91%	99.44%
99.68%	99.67%	99.94%	100.0%	100.0%		
100.0%	97.14%	99.36%	1.03%	99.91%		
Smart Sharp	е	-0.67	-0.28	-0.02	0.01	0.08
0.2	0.4	0.36	0.49	0.63	0.8	0.87
0.86	1.03	1.38	3.71		3.4	1
0.58	0.75	-0.95	0.96			
Sortino		-0.9	-0.38	-0.03	0.01	0.11
0.29	0.57	0.51	0.69	0.91	1.15	
1.24	1.51	2.04	7.51		6.7	
		-1.73	1.49			
Smart Sorti				-0.03	0.01	0.09
0.26	0.51	0.45		0.82	1.03	
1.11	1.35	1.83	6.71		6.00	
0.8	1.09	-1.55	1.33		0.00	=
Sortino/√2	1.00			-0.02	0.01	0.08
0.2	0.4	0.36	0.49	0.65	0.01	0.89
V.2	V. I	0.00	0.10	0.00	0.02	0.00

		1.44			4.7	9
		-1.23		0.00	0.04	0.05
Smart Sorti		-0.57				
	0.36	0.32		0.58		
0.79	0.96		4.75		4.2	8
	0.77		0.94			
Omega				0.87		
	0.87			0.87		
		0.87	0.87		0.8	7
0.87	0.87	0.87	0.87			
		-70.52%				
-45.53%	-42.72%	-31.47%	-34.07%	-34.04%	-29.04%	-29.76%
		-31.43%				
		-36.04%				
Longest DD	Days	3346	3337	3347	2227	3333
2132	782	957	897	590	605	716
687		273			156	
787	774	3337	410			
Volatility	(ann.)	13.97%	16.77%	16.2%	16.28%	
		15.34%				14.17%
14.46%	14.9%	14.55%	15.05%	7.51%		
3.75%	15.74%	17.38%	20.79%	12.65%		
Calmar		-0.1			-0.02	0.0
0.04	0.12	0.1	0.14	0.21	0.27	0.28
0.3	0.35	0.51	3.05		2.4	8
0.19	0.25	-0.17	0.36			
Skew		-2.02	-1.85	-1.76	-1.61	-1.52
-1.44	-1.45	-1.57	-1.62	-1.41	-1.61	-1.71
-1.63	-1.5	-1.57	0.26		0.2	6
-0.56	-0.11	8.98	-0.51			
Kurtosis		12.9	12.07	11.58	9.58	8.69
8.97	8.91	10.62	9.98	9.45	10.75	12.06
11.12	10.6	10.97			1.1	4
		245.71				
Expected Da	ilv V	-0.05%	-0 03%	-0.01%	-0.0%	0.0%
		0.02%		0.01%		
		0.02%		0.04%	0.03%	
0.04%					0.0	076
		-0.1% -0.91%	-0.53%	-0 14%	-0.1%	0.0%
0.19%	-	0.39%				
				0.73%	1.1	
0.72%	1 05%	1.78% -1.91%	∠.≒⊅/₀ 1 ∩2°/		1.1	≖ /₀
		-1.91% -9.61%		_1 F%	_1 06%	0 00%
2.09%		-9.61% 4.38%				
		4.38% 21.57%		0.51/6		
					13.	42%
8.24%	12.3%	-19.31%	12.02%			

•	erion					
	-47.01%			-39.81%	-28.99%	-22.84%
-15.93%		1.04%				
	-50.77%					
	in		0.0%			
0.0%	0.0%			0.0%	0.0%	0.0%
	0.0%		0.0%		0.0	%
0.0%	0.0%	0.0%	0.0%			
Daily Valu	e-at-Risk	-1.49%	-1.76%	-1.68%	-1.69%	-1.7%
-1.6%	-1.56%	-1.54%	-1.53%	-1.44%	-1.42%	-1.44%
-1.49%	-1.44%	-1.47%	-0.65%		-0.	33%
-1.59%	-1.74%	-2.24%	-1.26%			
	Shortfall (cVa			-1.68%	-1.69%	-1.7%
	-1.56%					
	-1.44%				-0.	
	-1.74%					
7	, ,	7.	7,0			
Max Consec	utive Wins	9	16	10	12	12
14	12	14	16	12	13	14
10	13	18	15		15	
9	10	9	11			
Max Consec	utive Losses	10	10	10	9	7
9	10	8	10	7	10	10
10	7	7	9		11	
9	9	9	8			
Gain/Pain	Ratio	-0.13	-0.06	-0.0	0.0	0.02
0.04	0.08	0.08	0.11	0.14	0.18	0.2
0.2	0.24	0.33	0.98		0.8	8
0.12	0.16	-0.21	0.23			
Gain/Pain	(1M)	-0.41	-0.19	-0.02	0.01	0.06
0.17	0.37	0.32	0.45	0.66	0.83	0.94
0.95		1.9	10.27		8.2	6
	0.86	-0.62	1.56			
Pavoff Rat	io	0.46	0.47	0.36	0.45	0.48
•	0.51			0.48		
0.6		0.67	1.0		0.9	
0.43			0.64			
Profit Fac				1.0	1.0	1.02
1.04			1.11		1.18	
1.2		1.33	1.98		1.8	
1.12		0.79	1.23		1.0	-
		0.62		0.8	0.78	0.81
0.81		0.88	0.88	0.93	1.0	
0.98	1.1	1.22	2.82	3.00	2.6	
	1.16		1.21		2.0	
CPC Index				0.2	0.25	n 28
	0.32	0.21	0.25	0.2	0.25	
V.24	0.02	V · Z Z	0.21	0.02	0.00	0.00

0.26 0.47 0.15 0.45	
Tail Ratio 0.71 0.78 0.8 0.78 0	.8
0.77 0.81 0.81 0.79 0.82 0.85 0.9	
0.82 0.88 0.92 1.42 1.38	
0.93 1.0 0.92 0.99	
Outlier Win Ratio 4.08 3.36 3.42 3.3	
3.43 3.39 3.54 3.5 3.61 3.66 3.59	
3.49 3.56 3.31 4.94 9.98	
3.0 2.71 2.83 4.0	
Outlier Loss Ratio 4.38 3.54 3.75 3.66 3	.56
3.79 3.88 3.92 3.96 4.18 4.31 4.2	
4.04 4.07 4.1 9.11 18.05	
3.91 3.62 3.6 5.13	
MTD 4.41% 4.78% 4.83% 4.37% 3	.65%
1.98% 2.71% 1.44% 1.26% 2.12% 2.85% 4.25	
3.92% 1.83% 2.06% -2.39% -1.25%	
4.0% 5.85% -4.49% 0.71%	
3M 14.06% 23.04% 19.45% 14.32%	
14.61% 12.86% 6.7% 9.71% 10.99% 13.55% 9.9%	
17.04% 14.07% 12.9% 17.53% 2.33%	
0.87% 16.83% 22.71% -16.45% 9.77%	
6M 10.82% 25.93% 16.96% 13.87%	
20.45% 18.99% 10.86% 15.82% 15.69% 23.71% 14.9	5%
22.76% 18.03% 20.11% 31.57% 17.25%	
7.7% 35.85% 50.85% -29.26% 16.15%	
YTD 8.9% 22.91% 15.48% 12.48%	
18.96% 16.94% 9.07% 14.42% 13.69% 22.73% 12.9	7%
19.46% 15.58% 16.9% 28.72% 16.64%	
7.37% 33.49% 48.3% -28.64% 14.32%	
1Y 4.4% 18.9% 12.36% 12.94%	
22.63% 19.75% 12.54% 14.42% 15.71% 25.7% 15.1	8%
31.65% 22.93% 33.33% 47.45% 37.72%	
16.02% 37.07% 53.2% -31.35% 26.29%	
3Y (ann.) -1.02% -0.35% 5.04% 3.45% 3	.68%
5.77% 4.88% 5.4% 6.05% 8.76% 9.37% 10.4	
9.39% 13.78% 18.83% 18.1% 7.81%	
7.76% 10.3% -13.3% 11.49%	
5Y (ann.) -2.44% -1.14% 2.6% 0.69% 3	.22%
5.96% 6.37% 6.77% 8.83% 9.23% 12.17% 12.2	
13.45% 13.72% 20.03% 21.07% 9.17%	
11.42% 14.58% -17.57% 11.37%	
10Y (ann.) -7.32% -4.32% -1.13% -0.8% 0	.01%
1.57% 3.8% 3.28% 4.8% 6.23% 8.06% 9.02	%
9.2% 11.07% 15.83% 22.79% 9.94%	
6.14% 9.12% -14.91% 8.92%	
All-time (ann.) -7.32% -4.32% -1.13% -0.8% 0	.01%

		3.28%				
		15.83%			9.94	= 76
0.14%	9.12%	-14.91%	8.92%			
Best Day		4.66%				
5.89%	5.36%	5.87%	5.12%	5.59%	5.18%	5.55%
5.97%	6.47%	5.95%	2.67%		1.33	3%
6.17%	7.65%	5.95% 35.49% -7.63%	8.42%			
Worst Day		-7.63%	-9.0%	-9.21%	-8.1%	
-8.18%	-8.35%	-7.84%	-7.84%	-7.89%	-7.05%	-7.35%
-7.93%	-7.44%	-7.68%	-8.31%	-1.55%		
-0.78%	-6.52%	-7.29%	-7.84%	-6.65%		
Best Month		12.75%	18.22%	19.05%	15.71%	
17.24%	14.14%	15.45%	12.07%	13.0%	11.33%	13.85%
14.33%	13.69%	11.33%	14.73%	10.1%		
4.84%	14.93%	11.33% 18.41%	13.5%	8.98%		
Worst Month	L	-20.86%	-22.72%	-23.67%	-21.78%	
-19.22%	-17.44%	-15.47%	-15.64%	-16.11%	-14.57%	-14.25%
-16.26%	-15.92%	-14.53%	-13.55%	-4.53%		
-2.39%	-14.36%	-14.08%	-16.21%	-10.75%		
Best Year		8.9%				
		24.79%	19.19%	27.52%	22.73%	33.91%
		43.64%				
		48.3%				
		-26.97%				
-22.35%	-18.06%	-18.74%	-19.55%	-16.89%	-14.86%	-11.41%
-12.37%	-12.94%	-8.47%	-3.5%	13.62%		
		-24.37%				
Avg. Drawdo	wn	-70.52%	-32.61%	-53.37%	-19.47%	
		-3.9%			-2.47%	-2.06%
		-1.97%				
		-3.37%				
Avg. Drawdo	· ·	3346	1672	3347	834	1114
121	56	64	47	31	26	29
28	20	16	9		10	
48		1672	18			
Recovery Fa		1.31	0.72	0.06	0.03	
0.74		1.56	2.13	3.08	3.76	
4.19	4.74	6.58	36.82		31.5	57
2.75	3.59		4.86			
Ulcer Index		0.54	0.41	0.24		0.19
0.16	0.09	0.11	0.1	0.08	0.07	
0.07	0.06	0.05	0.01		0.01	•
0.11			0.04			
Serenity In		-0.02	-0.02	-0.0	0.0	
0.08		0.23	0.35	0.67	1.25	
1.44	2.31	4.22	34.03		25.8	33

0.43	0.63	-0.04	2.86			
Avg. Up Mor	nth	_	_	_	_	_
-	_	_	_	_	_	_
_	_	_	_		_	
_	_	_	_			
Avg. Down M	Month	_	-	-	-	_
_	_	_	_	_	_	_
_	_	_	_		_	
_	_	_	_			
Win Days %		53.43%	55.98%	56.39%	56.21%	
56.93%	57.33%	57.42%	58.05%	58.18%	58.31%	58.76%
59.3%	59.52%	60.69%	60.42%	60.51%		
59.61%	55.02%	53.49%	42.93%	57.64%		
Win Month %	,	45.05%	49.55%	52.25%	54.05%	
57.66%	58.56%	61.26%	60.36%	62.16%	63.06%	64.86%
65.77%	65.77%	70.27%	70.27%	83.78%		
81.08%	62.16%	63.06%	28.83%	70.27%		
Win Quarter	- %	31.58%	50.0%	52.63%	57.89%	
52.63%	55.26%	63.16%	65.79%	63.16%	71.05%	65.79%
71.05%	68.42%	73.68%	84.21%	97.37%		
94.74%	71.05%	71.05%	21.05%	81.58%		
Win Year %		20.0%	40.0%	60.0%	40.0%	70.0%
60.0%	70.0%	70.0%	70.0%	70.0%	70.0%	70.0%
70.0%	70.0%	70.0%	100.0%		100	.0%
70.0%	70.0%	20.0%	70.0%			

[31]: qs.reports.full(portfolio.loc['2022-01-01':, 14], benchmark=portfolio['0050'],⊔

→active_returns = False)

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	Benchmark	Strategy
Start Period	2022-01-04	2022-01-04
End Period	2024-07-17	2024-07-17
Risk-Free Rate	0.0%	0.0%
Time in Market	97.0%	100.0%
Cumulative Return	37.41%	77.49%
CAGR	9.04%	16.92%
Sharpe	0.77	1.81
Prob. Sharpe Ratio	88.65%	99.61%
Smart Sharpe	0.74	1.74
Sortino	1.15	2.46
Smart Sortino	1.11	2.37
Sortino/√2	0.81	1.74

Smart Sortino/√2 Omega	0.78 1.36	1.68 1.36
Max Drawdown	-36.04%	-14.51%
Longest DD Days	774	176
Volatility (ann.)	19.28%	13.53%
R^2	0.0	0.0
Information Ratio	0.03	0.03
Calmar	0.25	1.17
Skew	0.1	-1.01
Kurtosis	2.19	2.83
Expected Daily %	0.05%	0.09%
Expected Monthly %	1.03%	1.87%
Expected Yearly %	11.18%	21.08%
Kelly Criterion	11.24%	4.15%
Risk of Ruin	0.0%	0.0%
Daily Value-at-Risk	-1.94%	-1.3%
Expected Shortfall (cVaR)	-1.94%	-1.3%
Max Consecutive Wins	7	12
Max Consecutive Losses	9	5
Gain/Pain Ratio	0.14	0.36
Gain/Pain (1M)	0.59	2.25
Payoff Ratio	1.16	0.71
Profit Factor	1.14	1.36
Common Sense Ratio	1.24	1.18
CPC Index	0.69	0.58
Tail Ratio	1.08	0.87
Outlier Win Ratio	2.97	4.22
Outlier Loss Ratio	3.04	3.95
MTD	5.85%	2.04%
3M	24.79%	12.59%
6M	53.43%	32.22%
YTD	48.3%	28.7%
1Y	53.2%	47.42%
3Y (ann.)	9.04%	16.92%
5Y (ann.)	9.04%	16.92%
10Y (ann.)	9.04%	16.92%
All-time (ann.)	9.04%	16.92%
Best Day	5.18%	2.82%
Worst Day	-5.32%	-4.01%
Best Month	18.41%	8.79%
Worst Month	-13.87%	-8.25%
Best Year	48.3%	42.17%

Worst Year	-25.97%	-2.99%
Avg. Drawdown	-3.67%	-1.64%
Avg. Drawdown Days	51	13
Recovery Factor	1.01	4.11
Ulcer Index	0.17	0.04
Serenity Index	0.09	1.83
Avg. Up Month	6.48%	4.29%
Avg. Down Month	-7.39%	-4.1%
Win Days %	52.36%	60.26%
Win Month %	54.84%	74.19%
Win Quarter %	63.64%	90.91%
Win Year %	66.67%	66.67%
Beta	_	0.04
Alpha	_	0.24
Correlation	_	6.26%
Treynor Ratio	_	1762.36%

None

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	Start	Valley	End	Days	Max Drawdown	99% Max Drawdown
1	2022-08-25	2022-10-11	2023-02-16	176	-14.507653	-13.677637
2	2022-06-09	2022-07-08	2022-08-15	68	-10.049329	-9.823648
3	2022-03-23	2022-05-10	2022-06-07	77	-8.706429	-7.367709
4	2022-02-18	2022-03-04	2022-03-17	28	-5.775195	-4.448199
5	2023-03-07	2023-03-14	2023-03-31	25	-5.025651	-3.750072

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Cumulative Returns vs Benchmark

4 Jan '22 - 17 Jul '24



Cumulative Returns vs Benchmark (Log Scaled)



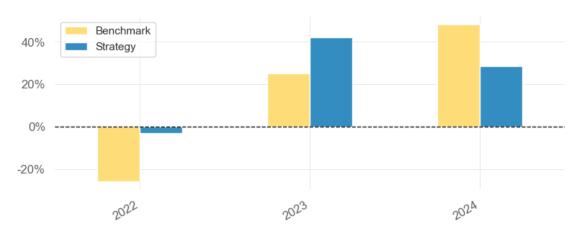
Cumulative Returns vs Benchmark (Volatility Matched)

4 Jan '22 - 17 Jul '24



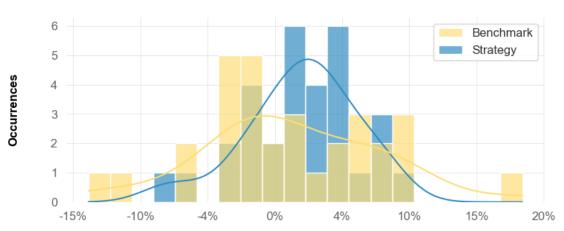
EOY Returns vs Benchmark

2022 - 2024



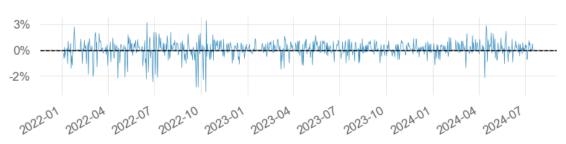
Distribution of Monthly Returns

2022 - 2024



Daily Returns

4 Jan '22 - 17 Jul '24



Rolling Beta to Benchmark



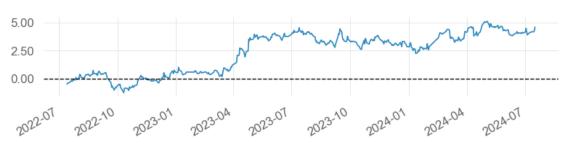
Rolling Volatility (6-Months)

14 Jul '22 - 17 Jul '24



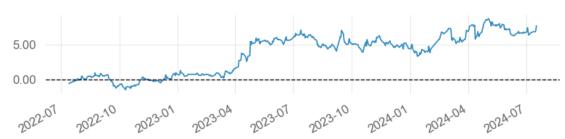
Rolling Sharpe (6-Months)

14 Jul '22 - 17 Jul '24



Rolling Sortino (6-Months)

14 Jul '22 - 17 Jul '24

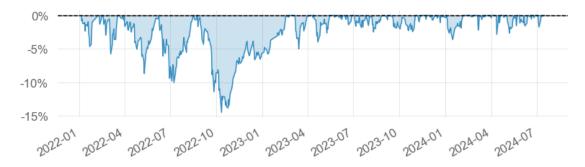


Strategy - Worst 5 Drawdown Periods

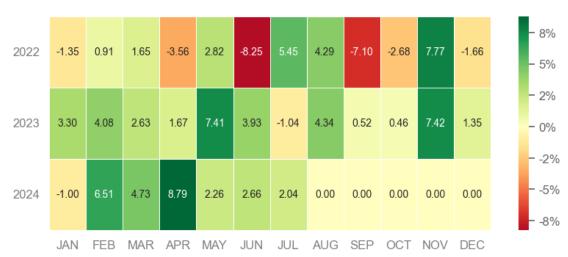
4 Jan '22 - 17 Jul '24



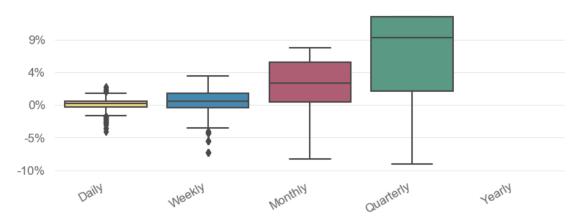
Underwater Plot



Strategy - Monthly Returns (%)



Strategy - Return Quantiles



```
history = history.reset_index()
   dates = sorted(list(set(history[' '])))
   seasonal_returns_long = [1]
   seasonal_returns_short = [1]
   for date in dates:
       print(date)
       current stocks = history[history[' '] == date]
       buy_stock = current_stocks[current_stocks['logistic prediction'] ==__
 ⊶Truel
       sell_stock = current_stocks[current_stocks['logistic prediction'] ==_u
 -False]
       print('Long stocks: ' + str(list(buy_stock[' '])))
       print('Short stocks: ' + str(list(sell_stock[' '])))
       print(f'Stock bought: {len(list(buy_stock[" "]))}, Stock shorted:

-{len(list(buy_stock[" "]))+len(list(sell_stock[" "]))}')

       long = buy_stock['Seasonal Return'].mean()
       short = -sell_stock['Seasonal Return'].mean()
       seasonal_returns_long.append(long)
       seasonal returns short.append(short)
   long_portfolio = pd.Series(seasonal_returns_long)
   long portfolio.cumsum().plot()
   short_portfolio = pd.Series(seasonal_returns_short)
   short_portfolio.cumsum().plot()
   long_short_portfolio = (long_portfolio + short_portfolio)/2
   long_short_portfolio.cumsum().plot()
backtest(data_test, reg, features_used)
111
history = data_test.copy()
history['logistic prediction'] = reg.predict(data_test[features_used])
history = history.reset_index()
dates = sorted(list(set(history[' '])))
seasonal_returns_long = [1]
seasonal_returns_short = [1]
for date in dates:
```

```
print(date)
    current_stocks = history[history[' '] == date]
    buy_stock = current_stocks[current_stocks['logistic prediction'] == True]
   print(list(buy_stock[' ']))
   sell_stock = current_stocks[current_stocks['logistic prediction'] == False]
    long = buy_stock['Seasonal Return'].mean()
   short = -sell_stock['Seasonal Return'].mean()
   seasonal_returns_long.append(long)
   seasonal_returns_short.append(short)
long_portfolio = pd.Series(seasonal_returns_long)
long_portfolio.cumsum().plot()
short_portfolio = pd.Series(seasonal_returns_short)
short_portfolio.cumsum().plot()
long_short_portfolio = (long_portfolio + short_portfolio)/2
long_short_portfolio.cumsum().plot()
111
```