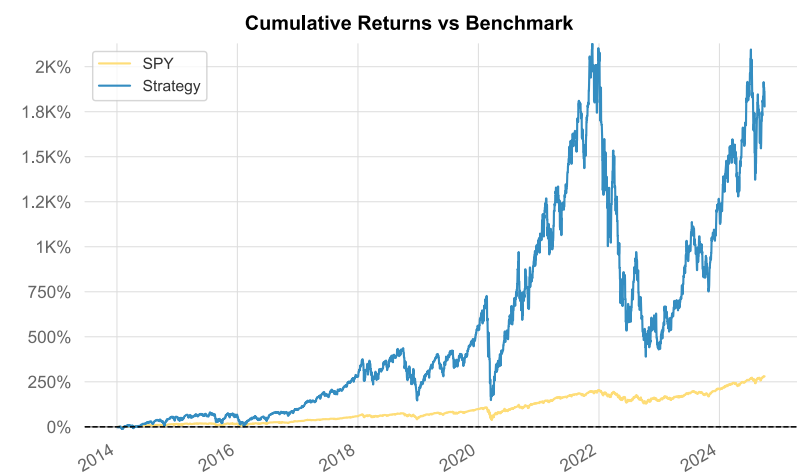


StockExampleAlgo Compared to SPY 3 Jan, 2014 - 1 Oct, 2024

Benchmark is SPY | Generated by [QuantStats](#) (v. 0.3.3)



Annual Return ⓘ

31.37%

Total Return ⓘ

1,779%

Max Drawdown ⓘ

-78.03%

RoMaD ⓘ

0.4

Longest DD Days ⓘ

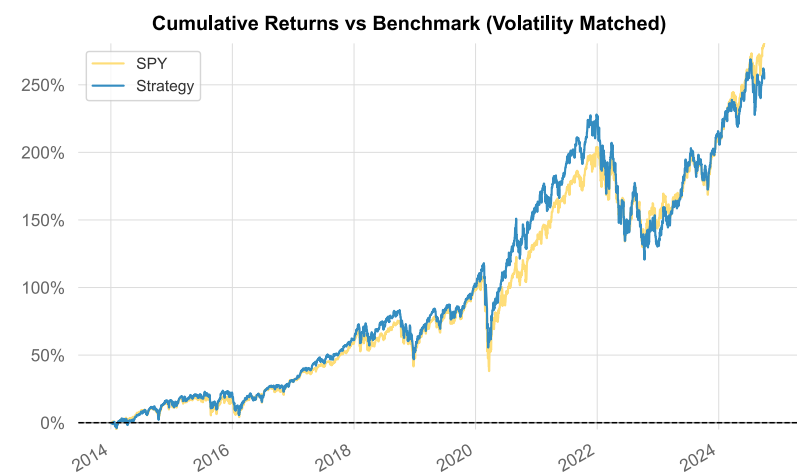
1044

Sharpe ⓘ

0.69

Sortino ⓘ

0.97

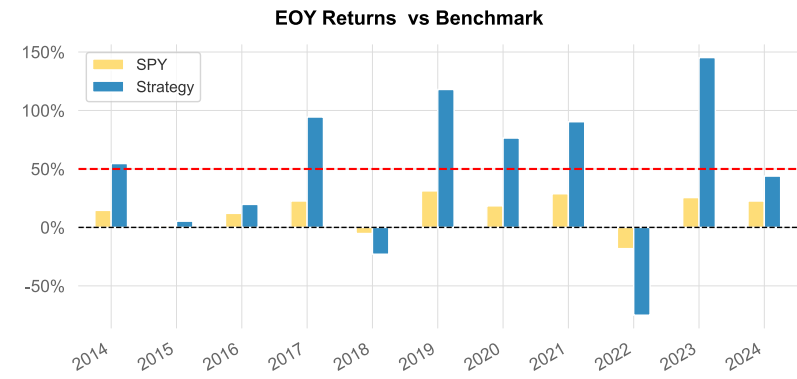


Parameters Used

Parameter	Value
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symbols	['TQQQ', 'UPRO']

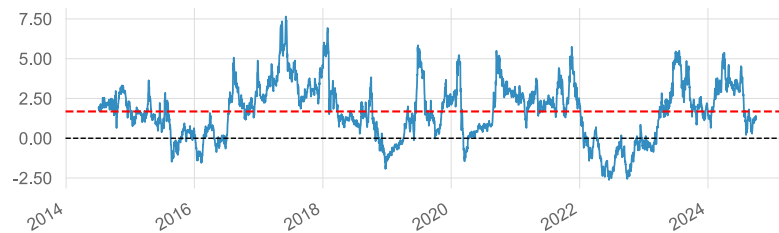
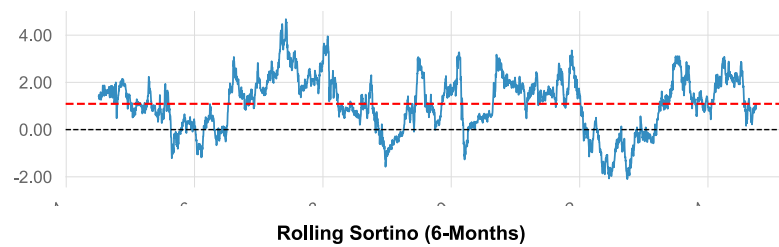
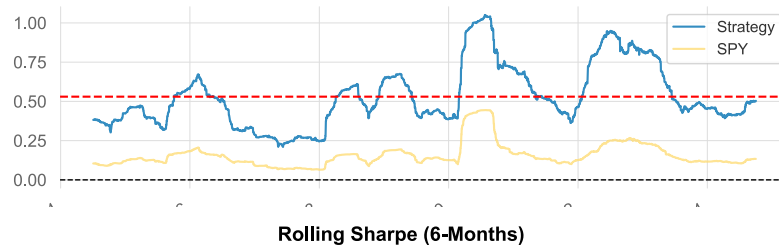
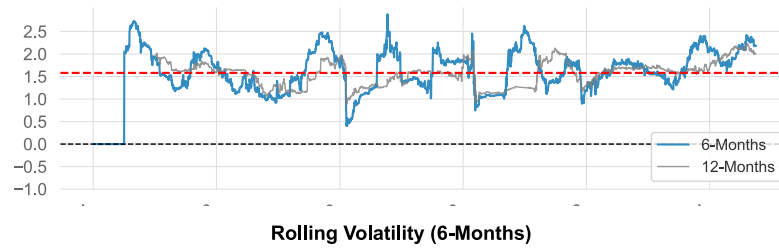
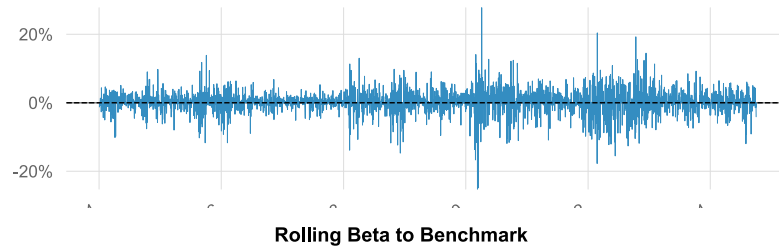
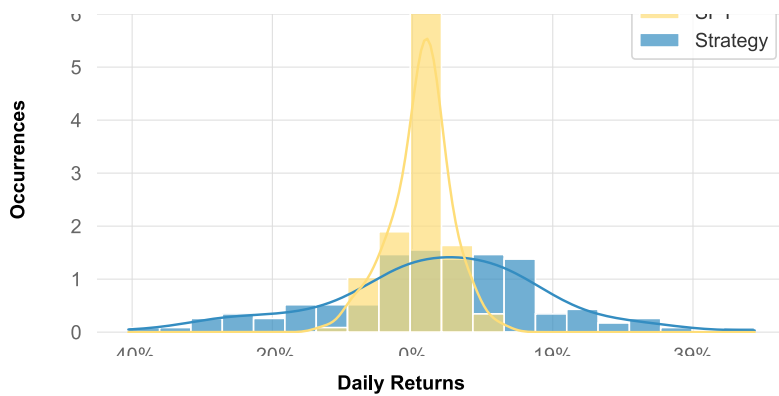
Key Performance Metrics

Metric	SPY	Strategy
Risk-Free Rate	4.48%	4.48%
Time in Market	69.0%	60.0%
Total Return	280%	1,779%
CAGR% (Annual Return)	13.23%	31.37%
Sharpe	0.55	0.69
RoMaD	0.39	0.4
Corr to Benchmark	1.0	0.46
Prob. Sharpe Ratio	43.88%	38.99%
Smart Sharpe	0.53	0.67
Sortino	0.77	0.97
Smart Sortino	0.74	0.93
Sortino/√2	0.54	0.68

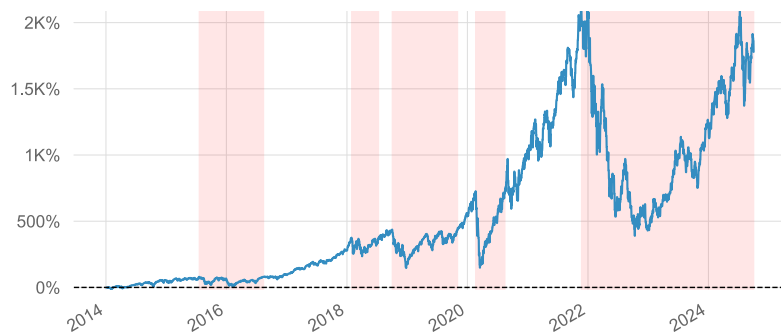


Distribution of Monthly Returns

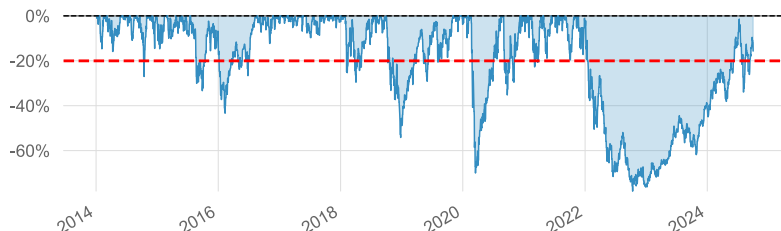




Metric	SPY	Strategy
Smart Sortino/ $\sqrt{2}$	0.52	0.66
Omega	1.14	1.14
Max Drawdown	-33.68%	-78.03%
Longest DD Days	708	1044
Volatility (ann.)	17.21%	56.01%
R ²	0.21	0.21
Information Ratio	0.03	0.03
Calmar	0.39	0.4
Skew	-0.61	-0.35
Kurtosis	20.24	9.95
Expected Daily%	0.03%	0.07%
Expected Monthly%	1.03%	2.28%
Expected Yearly%	12.91%	30.56%
Daily Value-at-Risk	-1.44%	-4.7%
Expected Shortfall (cVaR)	-1.44%	-4.7%
MTD	0.0%	-4.09%
3M	5.54%	-3.14%
6M	10.58%	16.98%
YTD	22.55%	43.86%
1Y	36.05%	90.78%
3Y (ann.)	9.53%	-1.6%
5Y (ann.)	15.67%	29.28%
10Y (ann.)	13.28%	30.45%
All-time (ann.)	13.23%	31.37%
Best Day	9.06%	27.76%
Worst Day	-10.94%	-25.22%
Best Month	12.7%	48.8%
Worst Month	-12.44%	-40.54%
Best Year	31.23%	145.23%
Worst Year	-18.16%	-75.07%
Avg. Drawdown	-1.61%	-5.88%
Avg. Drawdown Days	17	27
Recovery Factor	4.44	5.95
Ulcer Index	0.07	0.3

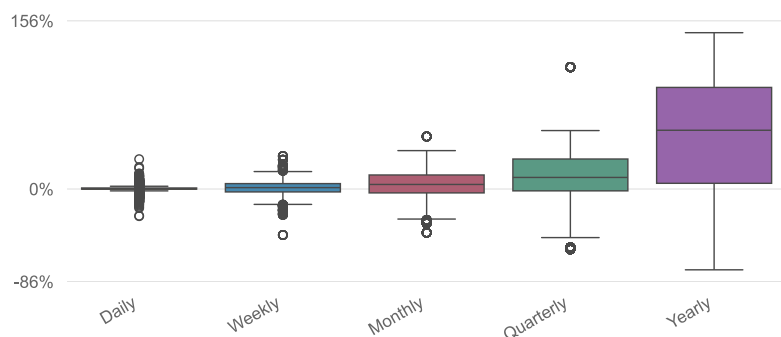


Underwater Plot



Year	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
JAN	-9.57	-9.70	-22.14	7.37	22.68	22.19	12.95	3.13	-29.76	24.89	9.71
FEB	17.13	19.36	0.29	14.10	-5.41	11.67	-31.80	1.73	-10.51	-1.11	10.82
MAR	-1.95	-7.61	16.06	2.58	-20.33	13.08	-40.54	3.38	15.52	16.27	1.15
APR	-1.35	5.43	-2.49	8.21	5.19	12.08	48.80	13.69	-27.91	4.83	-12.33
MAY	9.55	3.58	6.97	6.67	15.71	25.05	27.28	-3.47	-14.26	16.42	17.94
JUN	9.02	-4.35	-3.61	-4.05	1.29	2.28	12.55	16.52	-28.90	16.52	16.80
JUL	-2.23	8.62	17.71	9.82	8.35	2.28	20.57	6.59	34.19	10.40	-4.96
AUG	16.11	-26.93	1.44	2.91	13.23	-5.78	35.67	14.39	-15.63	-3.54	0.16
SEP	-5.45	-0.61	1.86	-0.52	0.46	1.99	-16.31	-16.16	-24.59	-14.96	6.10
OCT	7.66	34.03	-3.43	13.81	-24.35	10.36	-9.46	23.78	12.28	-9.83	-4.09
NOV	9.74	1.08	7.53	4.23	-3.10	10.77	28.95	6.96	-2.03	32.13	0.00
DEC	-0.35	-5.27	4.00	4.71	-25.15	8.17	13.04	1.42	-16.82	11.31	0.00

Strategy - Return Quantiles



Metric	SPY	Strategy
Serenity Index	1.41	0.81
Avg. Up Month	3.55%	12.31%
Avg. Down Month	-4.47%	-15.03%
Win Days	2161.15	2208.55
Loss Days	1763.85	1716.45
Win Days%	55.06%	56.27%
Win Month%	71.32%	63.85%
Win Quarter%	81.4%	70.45%
Win Year%	81.82%	81.82%

Beta	-	1.5
Alpha	-	0.22
Correlation	-	46.16%
Treynor Ratio	-	1180.87%

EOY Returns vs Benchmark

Year	SPY	Strategy	Multiplier	Won
2014	14.57%	54.60%	3.75	+
2015	1.28%	5.30%	4.13	+
2016	12.02%	19.67%	1.64	+
2017	22.58%	94.39%	4.18	+
2018	-5.21%	-22.92%	4.40	-
2019	31.23%	117.96%	3.78	+
2020	18.43%	76.39%	4.15	+
2021	28.77%	90.36%	3.14	+
2022	-18.16%	-75.07%	4.13	-
2023	25.50%	145.23%	5.69	+
2024	22.55%	43.86%	1.95	+

Worst 10 Drawdowns

Started	Recovered	Drawdown	Days
2021-11-23	2024-10-01	-78.03%	1044
2020-02-21	2020-08-15	-69.96%	177
2018-10-03	2019-11-02	-54.16%	396
2015-07-21	2016-08-13	-43.33%	390

Disclaimer: This report is for informational purposes only and should not be considered as investment advice. Past performance is not indicative of future results.

Started	Recovered	Drawdown	Days
2020-09-02	2020-12-08	-35.21%	98
2018-01-30	2018-07-11	-29.54%	163
2014-09-21	2014-10-29	-27.01%	39
2021-02-17	2021-04-10	-22.70%	53
2021-09-02	2021-10-30	-19.57%	59
2021-04-29	2021-06-12	-18.85%	45