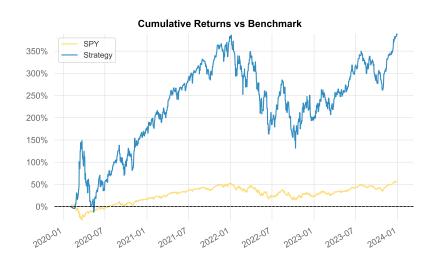
# **MLTrader Compared to SPY**

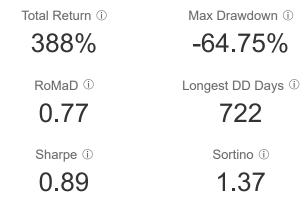
4 Feb, 2020 - 30 Dec, 2023

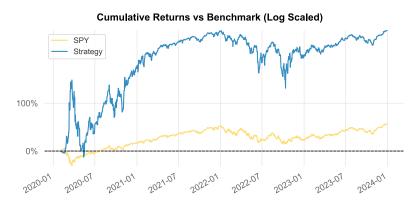
Benchmark is SPY | Generated by QuantStats (v. 0.3.1)



Annual Return ①

50.07%

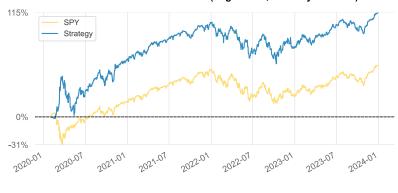




### **Parameters Used**

Parameter	Value
symbol	SPY

### Cumulative Returns vs Benchmark (Log Scaled, Volatility Matched)



# **Key Performance Metrics**

Metric	SPY	Strategy
Risk-Free Rate	5.21%	5.21%
Time in Market	69.0%	60.0%
Total Return	56%	388%
CAGR% (Annual Return)	12.14%	50.07%
Sharpe	0.39	0.89
RoMaD	0.36	0.77
Corr to Benchmark	1.0	0.14
Prob. Sharpe Ratio	22.94%	48.05%
Smart Sharpe	0.39	0.87
Sortino	0.55	1.37
Smart Sortino	0.54	1.35
Sortino/√2	0.39	0.97
Smart Sortino/√2	0.38	0.95

EOY Returns vs Benchmark





Metric	SPY	Strategy
Avg. Up Month	4.56%	12.14%
Avg. Down Month	-4.71%	-9.87%
Win Days	53.77%	55.12%
Win Month	63.83%	65.96%
Win Quarter	68.75%	68.75%
Win Year	75.0%	75.0%
Beta	-	0.36
Alpha	-	0.53
Correlation	-	13.81%
Treynor Ratio	-	1052.93%

# **Underwater Plot** 0% -20% -40% -60%

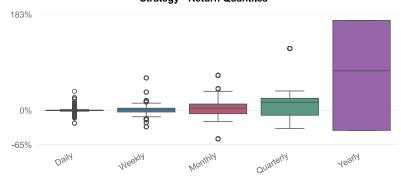
# 2020-01

#### 0.00 26.53 8.19 2020 30.82 4.18 21.68 -10.80 -9.10 2021 6.66 -7.95 2022 -14.06 -20,97 22,38 -19.21 21,67 3,36 2023 JAN FEB MAR APR MAY JUN JUL AUG SEP NOV DEC

## **EOY Returns vs Benchmark**

Year	SPY	Strategy	Multiplier	Won
2020	17.60%	172.36%	9.79	+
2021	28.77%	75.84%	2.64	+
2022	-18.16%	-38.11%	2.10	-
2023	26.21%	64.58%	2.46	+

### Strategy - Return Quantiles



### **Worst 10 Drawdowns**

Started	Recovered	Drawdown	Days
2020-03-24	2020-11-07	-64.75%	229
2022-01-05	2023-12-27	-52.39%	722
2020-03-01	2020-03-07	-11.40%	7
2021-09-02	2021-10-23	-10.90%	52
2021-11-23	2021-12-15	-8.46%	23
2021-02-17	2021-03-13	-8.37%	25
2020-11-10	2020-11-30	-8.08%	21
2020-03-12	2020-03-14	-7.69%	3
2021-01-27	2021-02-04	-7.65%	9
2021-04-29	2021-05-22	-7.14%	24

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