

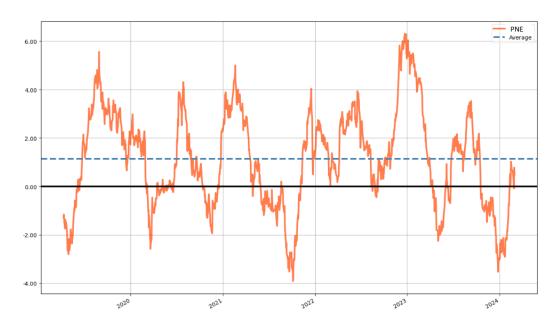
Portföy Analiz Raporu

Tarih: 03.03.2024

Raportör: Alper Ülkü

Market Breath Index

Market Breath Index (şu anki değeri = 0.8)



Aslında MBI'nın mavi çizgili ortalamayı geçmesi beklenmektedir ancak 31 Mart Yerel Seçimleri ile risklerin artması sebebiyle bu beklenti - sadece bu döneme özel olarak - gerçekçi olmayabilir. Piyasanın mavi çizgiye değip aşağı gitme ihtimali daha yüksek izlenmektedir. Aşağıdaki Markov Olasılıkları bu tezimizi doğrulamaktadır.

Markov Zincir Olasılıkları

Portföyünüze ait Markov Zincir olasılıkları verilmektedir. Bunların tümünün 0.56'dan küçük olması izlenmekte ve aslında downtrend dönemine girmiş olabilecekleri ihtimali kuvvetlenmektedir.

	Ticker	Open-Close	Close	Eff	PWin_OC	PWin
0	TAVHL.IS	0.998699	1.393326	0.716774	0.409	0.557
1	ANSGR.IS	1.112058	2.453065	0.453334	0.443	0.530
2	AGHOL.IS	1.406863	1.701415	0.826878	0.451	0.513
3	ISMEN.IS	1.255854	1.969202	0.637748	0.558	0.509
4	BIMAS.IS	0.921918	1.740673	0.529633	0.448	0.505
5	MAVI.IS	0.876389	1.756890	0.498830	0.402	0.504
6	TTKOM.IS	1.449350	1.097425	1.320683	0.579	0.500
7	ASELS.IS	0.995266	1.329247	0.748744	0.392	0.495
8	ENJSA.IS	1.257816	1.353324	0.929427	0.504	0.491
9	TCELL.IS	1.272720	1.318341	0.965395	0.538	0.491
10	ULKER.IS	1.504017	2.147459	0.700371	0.578	0.464
11	XU100.IS	1.013889	1.070071	0.947497	0.598	0.464
12	EKGYO.IS	0.932806	0.886722	1.051971	0.424	0.434
13	THYAO.IS	0.998662	1.225190	0.815107	0.477	0.427

	Ticker	Open-Close	Close	Eff	PWin_OC	PWin V
0	KZBGY.IS	1.069262396420986	0.6276028644467195	1.7037245318560226	0.49	0.581
1	AYDEM.IS	0.9674907010366802	1.0826260544347206	0.8936517803849116	0.491	0.576
2	AHGAZ.IS	0.756914092337773	1.219251253458986	0.6208023901475812	0.389	0.575
3	TAVHL.IS	0.9986988483743547	1.393325565846824	0.7167735042365161	0.409	0.557
4	PGSUS.IS	1.3042229451807859	1.0566819192824954	1.2342625736100177	0.482	0.553
5	ODAS.IS	1.6656795568656637	0.8051895955007402	2.0686799310040667	0.585	0.55
6	SNGYO.IS	1.0183874710713776	0.7601440637067971	1.3397295587697837	0.449	0.546
7	PETKM.IS	1.0297563402483771	0.9169623924581545	1.123008259354944	0.442	0.541
8	BUCIM.IS	1.0388082790828215	0.747890665737275	1.3889841479152012	0.513	0.541
9	CCOLA.IS	0.7138687005613729	1.963006824950888	0.3636608347397024	0.345	0.538
10	AKFGY.IS	1.1038235344115044	0.7944996965522676	1.389331599749563	0.53	0.535
11	ISCTR.IS	1.384670507624386	1.69015712599572	0.8192554918872628	0.508	0.53
12	KMPUR.IS	1.5490786879707954	0.726881493048814	2.131129630874735	0.529	0.528
13	SOKM.IS	1.3505768212308125	1.522540000877322	0.8870550662905347	0.478	0.526
14	TTRAKIS	1.194565788089192	1.7842869268068549	0.6694919803212239	0.45	0.526
15	OTKAR.IS	0.8607010059685939	1.5796116847956545	0.5448813871492334	0.417	0.525
16	DOAS.IS	1.622840962573274	1.2056576139164834	1.346021410922462	0.526	0.523
17	GARAN.IS	0.9929938927315942	1.7056235798866164	0.5821881829269767	0.434	0.523
18	TURSG.IS	1.0118071683758696	3.03275404492108	0.3336265168190385	0.485	0.519
19	BRSAN.IS	3.410114191309624	5.322220170753569	0.6407315146503585	0.669	0.519
20	YKBNK.IS	0.8384133388031937	1.5229293730105549	0.5505267372614941	0.44	0.518
21	VESBE.IS	1.3005692429563975	1.0552943727940098	1.232423176400529	0.392	0.514
22	AGHOL.IS	1.4068627159259328	1.7014146619338368	0.8268782134079444	0.451	0.513
23	ISGYO.IS	0.8836996346634949	0.9844843898646878	0.8976268631186267	0.478	0.513
24	ISMEN.IS	1.2558541788020918	1.9692023454576262	0.6377476553889854	0.558	0.509
25	TUKAS.IS	0.7290822850380619	0.8127204598440716	0.8970886316278555	0.417	0.509
26	IZMDC.IS	0.9369930633852185	0.7070648117620596	1.325186952876583	0.571	0.505
27	ALARK.IS	1.3805098859139686	1.071801132082295	1.2880280161972903	0.508	0.505
28	BIMAS.IS	0.9219180199829096	1.7406728878671625	0.5296331242985757	0.448	0.505
29	GESAN.IS	2.3067506713380266	0.75994888122743	3.0354024176103565	0.504	0.505
30	EGEEN.IS	1.6421942150130804	2.0728456080756907	0.7922414523373972	0.605	0.504
31	DOHOL.IS	0.9694624048908166	0.9590369341797896	1.010870770811286	0.444	0.504
32	GLYHO.IS	1.1300853120279116	0.8096872094011268	1.395681318547378	0.509	0.504
33	KONYA.IS	1.794699160130383	1.9971727346059882	0.898619898535942	0.482	0.504
34	ECZYT.IS	2.240986862122136	1.1626374697829327	1.927502699995153	0.6	0.504
35	TTKOM.IS	1.4493501759043208	1.0974250567535875	1.3206825987660618	0.579	0.5
36	ECILC.IS	1.42631057547479	1.0954586007149174	1.302023808651069	0.556	0.5
37	GSDHO.IS	1.3258866888629381	0.9027500655971	1.4687195707772844	0.563	0.495
38	GWIND.IS	1.0959488949656366	0.9705665995842526	1.1291846385761597	0.44	0.495
39	KOZAA.IS	1.4989914782438873	0.7618404515202709	1.9675923945133313	0.498	0.495
40	VAKBN.IS	1.268262089307342	0.9044067816439317	1.4023137763319662	0.541	0.495
41	ASELS.IS	0.9952656271546826	1.3292474143322845	0.7487436999489145	0.392	0.495
42	ASUZU.IS	2.2842232730718237	0.8302416577059301	2.751275188218622	0.579	0.491
43	BERA.IS	1.490345341181292	0.9780325210017394	1.5238198210984042	0.541	0.491

BIST100'e bütünüyle bakıldığında ise görüldüğü gibi sadece 4 hissenin Markov olasılıklarının 0.56 dan büyük olduğu izlenmektedir. BIST100 ün bütününe yönelik önümüzdeki günlerde downtrend davranış olasılığı yüksektir.

Bu bilgi ve tahminler ışığında sizin de portföyleriniz incelenerek yapay zeka ile elde edilen 4 ayrı portföy önerimiz aşağıda sunulmaktadır:

- 1. Maximum Drawdown (MDD) Optimize Portföyü
- 2. Negatif-Sharp Optimize Portföyü
- 3. Ağırlık Sınırlamalı Sharpe Optimize Portföyü
- 4. Ağırlık Sınırlamalı Negatif Sharpe Optimize Portföyü

I. MDD Portföyü Performansı (26.12.2023 - 1.03.2023)

Portföyünüzden bağımsız olarak bir BIST30 uzayı seçilseydi nasıl olacağına dair bir portföy planladık. Buna göre:

Ağırlıklar

assets	End PF %	Rebalance Buy Price	Rebalance Shares	Final_Cost
TUPRS.IS	30.44	143.50	202.0	30440.0
BIMAS.IS	27.61	303.75	82.0	27610.0
THYAO.IS	14.25	227.70	66.0	14250.0
TCELLIS	9.34	53.10	197.0	9340.0
FROTO.IS	7.91	736.00	13.0	7910.0
ASELS.IS	5.79	43.52	129.0	5790.0
GARAN.IS	4.23	56.20	69.0	4230.0
GUBRF.IS	0.00	172.60	1.0	0.0
AKBNK.IS	0.15	37.68	3.0	150.0
SAHOLIS	0.06	61.70	1.0	60.0
YKBNK.IS	0.08	19.96	4.0	80.0
EREGL.IS	0.04	40.56	1.0	40.0
ISCTR.IS	0.04	8.92	5.0	40.0
ENKALIS	0.03	33.64	1.0	30.0
EKGYO.IS	0.03	6.84	5.0	30.0
SISE.IS	0.00	45.72	0.0	0.0

Eğer yeni portföy yapılacak ise alınması gereken ağırlıklar "End PF %" kolonundadır.

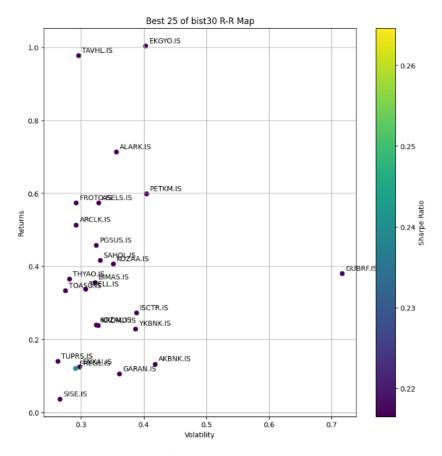
Portföy Performans Künyesi

Performing STEP-4: Showing Tearsheet of Portfolio *********************************				

Start date 2023-12-28 End date 2024-03-01 Total months 2 Backtest Annual return 199.5% Cumulative returns 22.2% Annual volatility 18.1% Sharpe ratio 6.18 Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		_		
End date 2024-03-01 Total months 2 Backtest Annual return 199.5% Cumulative returns 22.2% Annual volatility 18.1% Sharpe ratio 6.18 Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%	*	******* PORTFOLI	TEARSHEET	
Total months 2 Backtest		Start date	2023-12-28	
Annual return 199.5% Cumulative returns 22.2% Annual volatility 18.1% Sharpe ratio 6.18 Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		End date	2024-03-01	
Backtest		Total months	2	
Annual return 199.5% Cumulative returns 22.2% Annual volatility 18.1% Sharpe ratio 6.18 Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		TOTAL MONTHS	_	
Cumulative returns 22.2% Annual volatility 18.1% Sharpe ratio 6.18 Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%			Backtest	
Annual volatility 18.1% Sharpe ratio 6.18 Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Annual return	199.5%	
Annual volatility 18.1% Sharpe ratio 6.18 Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Cumulative returns	22.2%	
Sharpe ratio 6.18 Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%				
Calmar ratio 71.59 Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Annual volatility	18.1%	
Stability 0.93 Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Sharpe ratio	6.18	
Max drawdown -2.8% Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Calmar ratio	71.59	
Omega ratio 2.50 Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Stability	0.93	
Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Max drawdown	-2.8%	
Sortino ratio 10.81 Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Omega ratio	2.50	
Skew -0.61 Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%			40.04	
Kurtosis -0.03 Tail ratio 1.33 Daily value at risk -1.8%		Sortino ratio	10.81	
Tail ratio 1.33 Daily value at risk -1.8%		Skew	-0.61	
Daily value at risk -1.8%		Kurtosis	-0.03	
		Tail ratio	1.33	
******* end of TEARSHEET ********		Daily value at risk	-1.8%	
	*	****** end of T	EARSHEET ***	

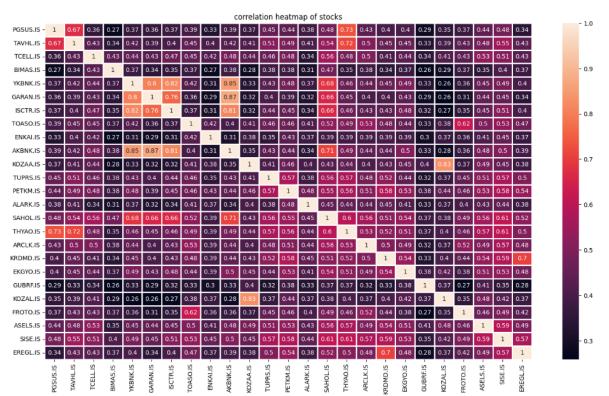
Sharpe Oranı 6.18 Stability .93, MDD -2.8% ile bu çok düzgün bir uptrend portföyüdür, ancak 20.02.2024'te downtrend başladığı tahmin edildiğinden bugünlerde girilmesi halinde yüksek performans garanti edilemez.

Getiri-Risk Haritası



TAVHL ve EKGYO en iyi getirili ve riski makul seviyede hisseler olmuştur.

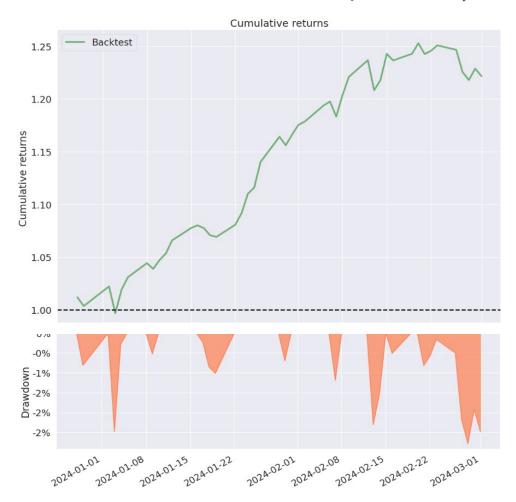
Korelasyon Haritası



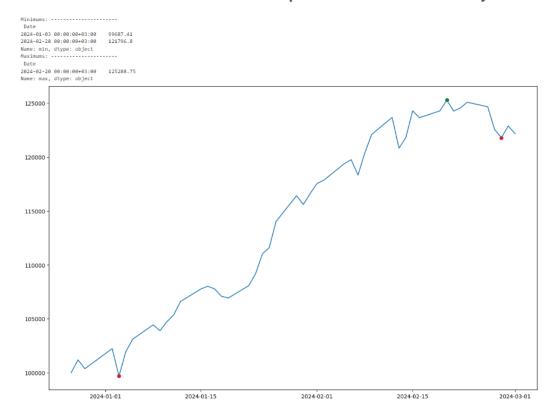
26.12.2023 - 1.03.2023 Arası Tarihsel Seyir:

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2024-01-02 00:00:00+03:00	100826.72
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2024-01-18 00:00:00+03:00	105686.61
2024-01-19 00:00:00+03:00	105519.50
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2024-01-23 00:00:00+03:00	107777.32
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2024-01-26 00:00:00+03:00	112623.10
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2024-02-26 00:00:00+03:00	123260.23
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2024-03-01 00:00:00+03:00	120767.42
Name: Portfolio, dtype: flo	oat64

26.12.2023 - 1.03.2023 Arası Tarihsel Grafik Seyir/Maksimum Çökme



26.12.2023 - 1.03.2023 Arası Uptrend-Downtrend Endikasyonu



Alttaki kırmızı nokta uptrend işareti, üstteki yeşil nokta downtrend işaretidir. En sondaki kırmızı nokta ise henüz uptrend olarak değerlendirilmemelidir.

II. N-SHARPE Portföyü Performansı (26.12.2023 - 1.03.2023)

Portföyünüzde yer alan bazı hisselerle yapılan N-Sharpe özellikli bir optimize portföy aşağıdadır:

Ağırlıklar

assets	End PF %	Rebalance Buy Price	Rebalance Shares	Final_Cost
EKGYO.IS	47.67	6.84	6997.0	47670.0
AGHOLIS	25.82	187.00	142.0	25820.0
ISMEN.IS	12.76	29.06	439.0	12760.0
ENJSA.IS	13.74	43.90	291.0	13740.0

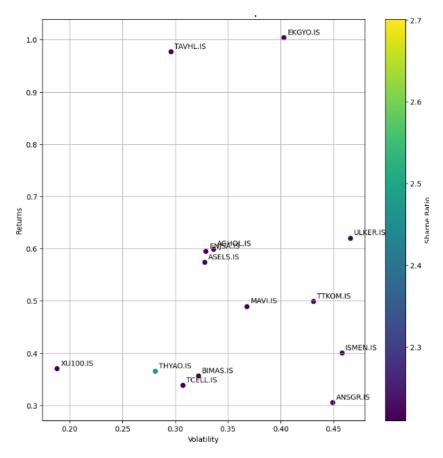
Eğer yeni portföy yapılacak ise alınması gereken ağırlıklar "End PF %" kolonundadır.

Portföy Performans Künyesi

******* PORTFOLI	D TEARSHEET	*******
Start date	2023-12-28	
End date	2024-03-01	
Total months	2	
	Backtest	
Annual return	863.7%	
Cumulative returns	51.2%	
Annual volatility	27.1%	
Sharpe ratio	8.54	
Calmar ratio	177.45	
Stability	0.95	
Max drawdown	-4.9%	
Omega ratio	3.75	
Sortino ratio	17.77	
Skew	-0.14	
Kurtosis	0.52	
Tail ratio	1.76	
Daily value at risk	-2.5%	
****** end of Ti	EARCHEET ***	********

Sharpe Oranı 8.54 Stability 0.95, MDD -4.9% ile bu çok düzgün bir uptrend portföyüdür, ancak 20.02.2024'te downtrend başladığı tahmin edildiğinden bugünlerde girilmesi halinde yüksek performans garanti edilemez.

Getiri-Risk Haritası



TAVHL ve EKGYO burada da en iyi getirili ve riski makul seviyede hisseler olmuştur. Ancak bu pozitif ayrışma çok daha fazla risk taşımaktadır. Downtrend de bunları alaşağı olma riskleri artmıştır.

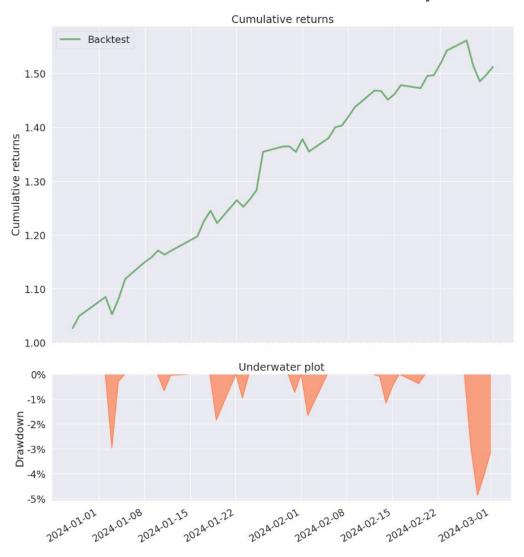
Korelasyon Haritası



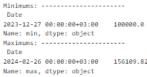
26.12.2023 - 1.03.2023 Arası Tarihsel Seyir:

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2023-12-29		104737.56
2024-01-02	00:00:00+03:00	108277.49
2024-01-03	00:00:00+03:00	105056.40
2024-01-04	00:00:00+03:00	107955.26
2024-01-05	00:00:00+03:00	111620.12
2024-01-08	00:00:00+03:00	114779.66
2024-01-09	00:00:00+03:00	115609.43
2024-01-10	00:00:00+03:00	116928.55
2024-01-11	00:00:00+03:00	116140.39
2024-01-12	00:00:00+03:00	116873.05
2024-01-15	00:00:00+03:00	118869.93
2024-01-16	00:00:00+03:00	119549.77
2024-01-17	00:00:00+03:00	122391.22
2024-01-18	00:00:00+03:00	124309.02
2024-01-19	00:00:00+03:00	122009.94
2024-01-22	00:00:00+03:00	126255.53
2024-01-23	00:00:00+03:00	125043.84
2024-01-24	00:00:00+03:00	126444.47
2024-01-25	00:00:00+03:00	128107.99
2024-01-26	00:00:00+03:00	135251.61
2024-01-29	00:00:00+03:00	136242.80
2024-01-30	00:00:00+03:00	136270.65
2024-01-31	00:00:00+03:00	135259.85
2024-02-01	00:00:00+03:00	137601.56
2024-02-02	00:00:00+03:00	135304.67
2024-02-05	00:00:00+03:00	137841.33
2024-02-06	00:00:00+03:00	139823.95
2024-02-07	00:00:00+03:00	140135.40
2024-02-08	00:00:00+03:00	141804.58
2024-02-09	00:00:00+03:00	143587.41
2024-02-12	00:00:00+03:00	146653.62
2024-02-13	00:00:00+03:00	146515.49
2024-02-14	00:00:00+03:00	144941.00
2024-02-15	00:00:00+03:00	145950.77
2024-02-16	00:00:00+03:00	147648.92
2024-02-19	00:00:00+03:00	147088.08
2024-02-20	00:00:00+03:00	149328.81
2024-02-21	00:00:00+03:00	149506.67
2024-02-22	00:00:00+03:00	151590.20
	00:00:00+03:00	
	00:00:00+03:00	
	00:00:00+03:00	
	00:00:00+03:00	
	00:00:00+03:00	
	00:00:00+03:00	
202-1-03-01	55100100.05100	131033100

26.12.2023 - 1.03.2023 Arası Tarihsel Grafik Seyir:



26.12.2023 - 1.03.2023 Arası Uptrend-Downtrend Endikasyonu





Alttaki kırmızı nokta uptrend işareti, üstteki yeşil nokta downtrend işaretidir.

III. Ağırlık sınırlamalı SHARPE Portföyü Performansı (26.12.2023 - 1.03.2023)

Portföyünüzde yer alan hisselerle yapılan Ağırlık sınırlama özellikli bir optimize portföy aşağıdadır:

Ağırlıklar

assets	End PF %	Rebalance Buy Price	Rebalance Shares	Final_Cost
TAVHLIS	8.49	102.50	87.0	8490.0
AGHOLIS	7.43	187.00	48.0	7430.0
ISMEN.IS	7.75	29.06	309.0	7750.0
MAVI.IS	9.30	106.40	84.0	9300.0
TTKOM.IS	9.65	24.42	368.0	9650.0
ASELS.IS	10.72	43.52	206.0	10720.0
ENJSA.IS	8.37	43.90	205.0	8370.0
TCELL.IS	9.34	53.10	169.0	9340.0
EKGYO.IS	7.73	6.84	1315.0	7730.0
THYAO.IS	9.82	227.70	39.0	9820.0
ULKER.IS	5.86	74.85	75.0	5860.0
BIMAS.IS	5.52	303.75	14.0	5520.0

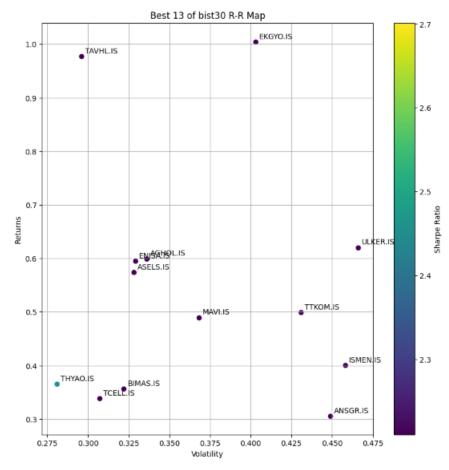
Eğer yeni portföy yapılacak ise alınması gereken ağırlıklar "End PF %" kolonundadır.

Portföy Performans Künyesi

howing Tearsheet of Portfolio *********************************			
### PORTFOLIO TEARSHEET ***********************************	Performing STEP-4:		
Start date 2023-12-28 End date 2024-03-01 Total months 2 Backtest Annual return 491.5% Cumulative returns 38.3% Annual volatility 21.3% Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%			
Start date 2023-12-28 End date 2024-03-01 Total months 2 Backtest Annual return 491.5% Cumulative returns 38.3% Annual volatility 21.3% Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%			
End date 2024-03-01 Total months 2 Backtest Annual return 491.5% Cumulative returns 38.3% Annual volatility 21.3% Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%			
Total months 2 Backtest	Start date	2023-12-28	
Backtest Annual return 491.5% Cumulative returns 38.3% Annual volatility 21.3% Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	End date	2024-03-01	
Annual return 491.5% Cumulative returns 38.3% Annual volatility 21.3% Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Total months	2	
Annual return 491.5% Cumulative returns 38.3% Annual volatility 21.3% Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%		Backtoct	
Cumulative returns 38.3% Annual volatility 21.3% Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%			
Annual volatility 21.3% Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Annual return	491.5%	
Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Cumulative returns	38.3%	
Sharpe ratio 8.48 Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	A	24.00/	
Calmar ratio 112.28 Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Annual volatility	21.3%	
Stability 0.94 Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Sharpe ratio	8.48	
Max drawdown -4.4% Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Calmar ratio	112.28	
Omega ratio 3.73 Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Stability	0.94	
Sortino ratio 17.20 Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Max drawdown	-4.4%	
Skew -0.38 Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Omega ratio	3.73	
Kurtosis 0.11 Tail ratio 1.32 Daily value at risk -2.0%	Sortino ratio	17.20	
Tail ratio 1.32 Daily value at risk -2.0%	Skew	-0.38	
Daily value at risk -2.0%	Kurtosis	0.11	
	Tail ratio	1.32	
******* end of TEARSHEET *********	Daily value at risk	-2.0%	
	******* end of T	EARSHEET ***	*******

Sharpe Oranı 8.48 Stability 0.94, MDD -4.4% ile bu çok düzgün bir uptrend portföyüdür, ancak 20.02.2024'te downtrend başladığı tahmin edildiğinden bugünlerde girilmesi halinde yüksek performans garanti edilemez.

Getiri-Risk Haritası



TAVHL ve EKGYO burada da en iyi getirili ve riski makul seviyede hisseler olmuştur. Ancak bu pozitif ayrışma çok daha fazla risk taşımaktadır. Downtrend de bunları alaşağı olma riskleri artmıştır.

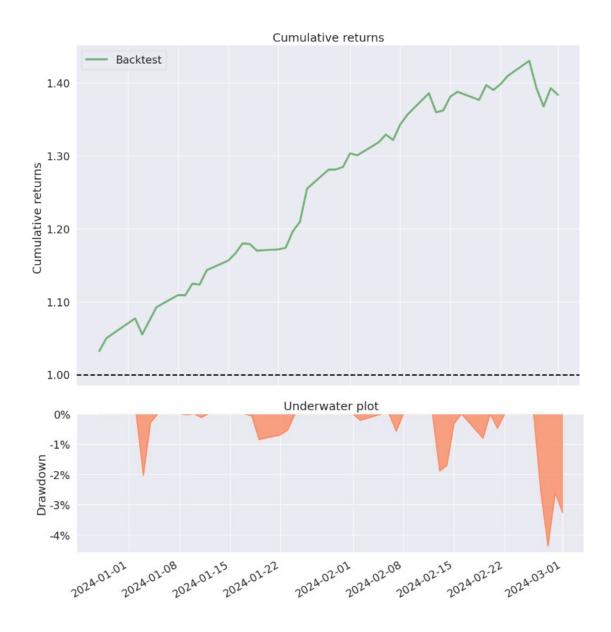
Korelasyon Haritası



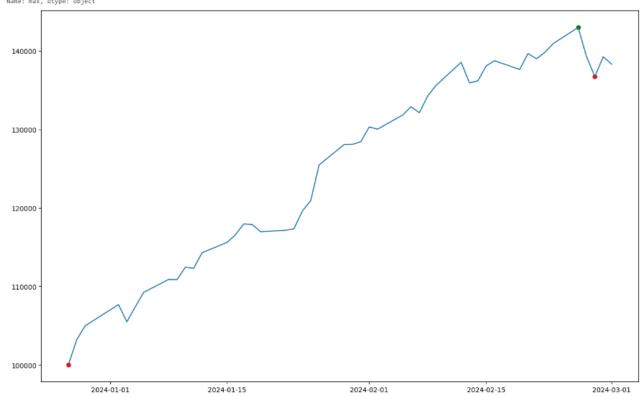
26.12.2023 - 1.03.2023 Arası Tarihsel Seyir:

Date		
2023-12-27	00:00:00+03:00	100000.0
2023-12-28	00:00:00+03:00	103209.08
2023-12-29	00:00:00+03:00	104975.36
2024-01-02	00:00:00+03:00	107688.89
2024-01-03	00:00:00+03:00	105492.3
2024-01-04	00:00:00+03:00	107384.2
2024-01-05	00:00:00+03:00	109240.51
2024-01-08	00:00:00+03:00	110889.3
2024-01-09		110859.91
2024-01-10		112452.47
2024-01-10		112319.16
2024-01-11		114296.83
2024-01-15		115613.56
2024-01-16		116601.12
2024-01-17		117971.5
2024-01-18	00:00:00+03:00	117886.23
2024-01-19		116972.39
2024-01-22	00:00:00+03:00	117151.77
2024-01-23	00:00:00+03:00	117355.44
2024-01-24	00:00:00+03:00	119605.11
2024-01-25	00:00:00+03:00	120922.62
2024-01-26	00:00:00+03:00	125477.18
2024-01-29	00:00:00+03:00	128079.46
2024-01-30	00:00:00+03:00	128098.61
2024-01-31	00:00:00+03:00	128440.45
2024-02-01	00:00:00+03:00	130314.13
2024-02-02	00:00:00+03:00	130036.04
2024-02-05	00:00:00+03:00	131838.22
2024-02-06	00:00:00+03:00	132898.46
2024-02-07	00:00:00+03:00	132134.1
2024-02-08	00:00:00+03:00	134268.03
2024-02-09	00:00:00+03:00	135620.67
2024-02-12	00:00:00+03:00	138556.12
2024-02-13	00:00:00+03:00	135939.21
2024-02-14	00:00:00+03:00	136191.76
2024-02-15	00:00:00+03:00	138105.24
2024-02-16	00:00:00+03:00	138755.73
	00:00:00+03:00	137640.79
2024-02-20		139672.61
2024-02-21		139001.7
2024-02-22		139798.4
	00:00:00+03:00	140931.49
	00:00:00+03:00	142995.24
	00:00:00+03:00	139285.21
	00:00:00+03:00	136736.04
	00:00:00+03:00	139254.97
2024-03-01	00:00:00+03:00	138327.54

26.12.2023 - 1.03.2023 Arası Tarihsel Grafik Seyir:



26.12.2023 - 1.03.2023 Arası Uptrend-Downtrend Endikasyonu



Alttaki kırmızı nokta uptrend işareti, üstteki yeşil nokta downtrend işaretidir.

IV. Ağırlık sınırlamalı N-Sharpe BIST100 Portföyü Performansı (26.12.2023 - 1.03.2023)

Portföyünüz dışında bağımsız olarak BIST100'den tümüyle yapay zekanın seçtiği hisseler ve ağırlıkları aşağıdadır:

Ağırlıklar

assets	End PF %	Rebalance Buy Price	Rebalance Shares	Final_Cost
AHGAZ.IS	9.15	9.62	935.0	9150.0
TUKAS.IS	8.33	6.30	1428.0	8330.0
GWIND.IS	8.76	20.78	433.0	8760.0
IPEKE.IS	8.11	29.82	301.0	8110.0
PENTA.IS	10.01	17.11	526.0	10010.0
TOASO.IS	9.98	211.50	42.0	9980.0
KARSN.IS	9.59	8.13	1107.0	9590.0
KOZAL.IS	8.18	18.99	473.0	8180.0
GUBRF.IS	6.79	172.60	52.0	6790.0
HALKB.IS	8.00	11.49	579.0	8000.0
TTRAK.IS	4.33	688.00	6.0	4330.0
AKFGY.IS	3.26	1.75	1611.0	3260.0
KOZAA.IS	1.74	39.48	49.0	1740.0
IZMDC.IS	1.96	5.52	318.0	1960.0
QUAGR.IS	1.30	5.31	201.0	1300.0
KZBGY.IS	0.51	17.13	26.0	510.0

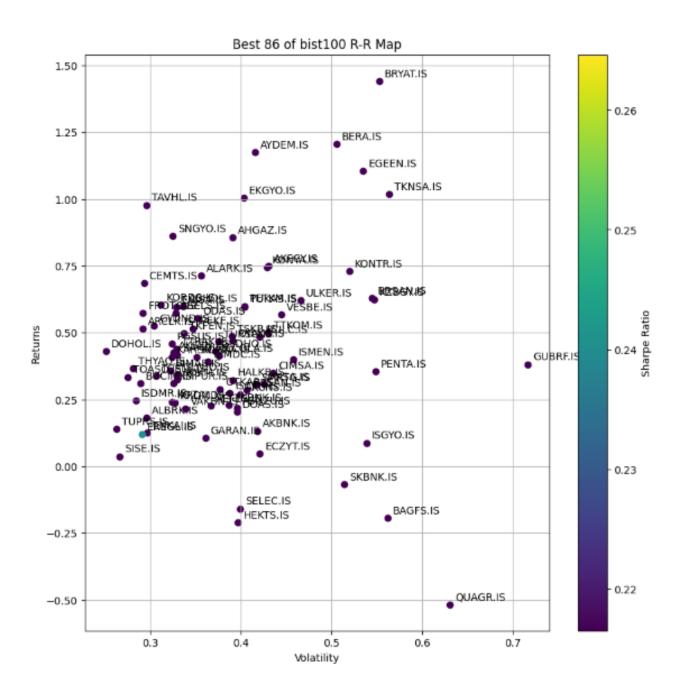
Eğer yeni portföy yapılacak ise alınması gereken ağırlıklar "End PF %" kolonundadır.

Portföy Performans Künyesi

******* PORTFOLI	O TEADCHEET	******
	2023-12-28	-
Start date	2023-12-28	
End date	2024-03-01	
Total months	2	
	Backtest	
Annual return	329.7%	
Cumulative returns	30.5%	
Annual volatility	23.4%	
Sharpe ratio	6.37	
Calmar ratio	75.06	
Stability	0.93	
Max drawdown	-4.4%	
Omega ratio	2.67	
Sortino ratio	11.33	
Skew	-0.51	
Kurtosis	-0.04	
Tail ratio	1.53	
Daily value at risk	-2.4%	
******* end of T	EARSHEET ***	*******

Sharpe Oranı 6.37 Stability 0.93, MDD -4.4% ile bu çok düzgün bir uptrend portföyüdür, ancak 20.02.2024'te downtrend başladığı tahmin edildiğinden bugünlerde girilmesi halinde yüksek performans garanti edilemez.

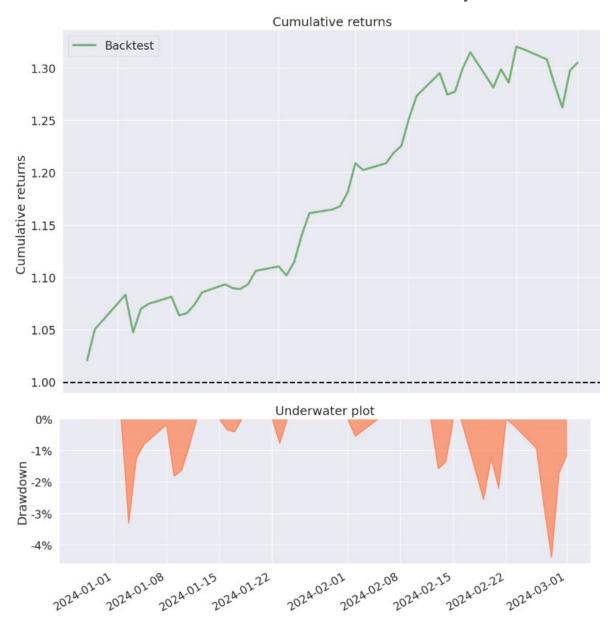
Getiri-Risk Haritası



26.12.2023 - 1.03.2023 Arası Tarihsel Seyir:

```
Performing STEP-3:
Construct Time series...
Residue cash: 605.4600000000064
Date
2023-12-27 00:00:00+03:00
2023-12-28 00:00:00+03:00 102062.66
2023-12-29 00:00:00+03:00 105027.98
2024-01-02 00:00:00+03:00
2024-01-03 00:00:00+03:00
                          104740.79
2024-01-04 00:00:00+03:00 106970.81
2024-01-05 00:00:00+03:00 107458.77
2024-01-08 00:00:00+03:00 108136.08
2024-01-09 00:00:00+03:00 106367.39
2024-01-10 00:00:00+03:00 106561.27
2024-01-11 00:00:00+03:00 107379.54
2024-01-12 00:00:00+03:00
                        108557.66
2024-01-15 00:00:00+03:00 109324.41
2024-01-16 00:00:00+03:00 108954.12
2024-01-17 00:00:00+03:00 108878.32
2024-01-18 00:00:00+03:00 109343.05
2024-01-19 00:00:00+03:00 110615.88
2024-01-22 00:00:00+03:00 111031.65
2024-01-23 00:00:00+03:00 110174.91
2024-01-24 00:00:00+03:00 111428.08
2024-01-25 00:00:00+03:00 114018.94
2024-01-26 00:00:00+03:00 116123.55
2024-01-29 00:00:00+03:00 116473.66
2024-01-30 00:00:00+03:00 116778.74
2024-01-31 00:00:00+03:00 118122.31
2024-02-01 00:00:00+03:00
                        120899.33
2024-02-02 00:00:00+03:00
                          120239.0
2024-02-05 00:00:00+03:00 120893.37
2024-02-06 00:00:00+03:00 121899.97
2024-02-07 00:00:00+03:00 122544.15
2024-02-08 00:00:00+03:00 125185.75
2024-02-09 00:00:00+03:00 127331.48
2024-02-12 00:00:00+03:00 129494.78
2024-02-13 00:00:00+03:00
                        127446.76
2024-02-14 00:00:00+03:00 127729.87
2024-02-15 00:00:00+03:00 129950.67
2024-02-16 00:00:00+03:00 131487.74
2024-02-19 00:00:00+03:00 128124.29
2024-02-20 00:00:00+03:00 129870.24
2024-02-21 00:00:00+03:00 128595.69
2024-02-22 00:00:00+03:00
                          132024.68
2024-02-23 00:00:00+03:00 131759.59
2024-02-26 00:00:00+03:00 130800.83
2024-02-27 00:00:00+03:00 128376.66
2024-02-28 00:00:00+03:00 126224.95
2024-02-29 00:00:00+03:00 129764.23
2024-03-01 00:00:00+03:00 130491.11
```

26.12.2023 - 1.03.2023 Arası Tarihsel Grafik Seyir:

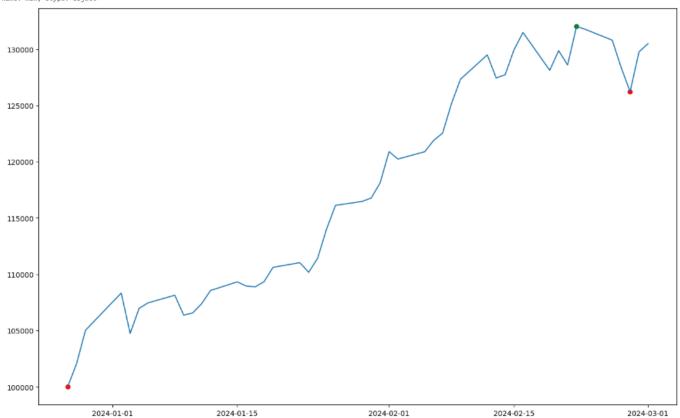


26.12.2023 - 1.03.2023 Arası Uptrend-Downtrend Endikasyonu

Minimums: ----Date 2023-12-27 00:00:00+03:00 2024-02-28 00:00:00+03:00 100000.0 126224.95 Name: min, dtype: object
Maximums: -----Date 2024-02-22 00:00:00+03:00

132024.68

Name: max, dtype: object



Görüş ve Değerlendirme

MHI endeksinin belirttiği gibi BIST30 yükseliş trendi 26.12.2023 te başlamış olup trendin 20 şubatta tamamlandığı veya önümüzdeki en fazla 2 hafta daha devam edebileceği düşünülmektedir.

31 Mart 2024'deki Belediye Seçimleri'nden önce ay boyunca kararsız bir piyasa beklentisi hakimdir.

Mart ayı içerisinde downtrend'e girilmesi ve bu rejimin en az Haziran sonuna dek sürmesi beklenmektedir.

Risklerin azaltılması gereken bu dönemde, en ağırlıkları en çok dağıtılmış olan veya ağırlık sınırlamalı portföylerle devam edilmesi güvenli olacak, alternatif yatırım araçların ağırlıklarının arttırılması da ayrıca uygun olacaktır.

Saygılarımızla,

Alper Ülkü





