Project Overkill v1.1

21.10.2023

Design by TRW: Archenemy

With notable contributions from:

salxx

hack

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Update

First feedback was received from fellow TRW members. Notable suggestions / ideas were:

- 1. Suggested development of strategies using Cryptocap / Binance
- 2. Reduction of strategy numbers and addition of other TPI components
- 3. Code suggested for building TPI signals based on 10 strategies.
- 4. Code suggested for building TPI signals based on less strategies plus other TPI components.
- 5. Ensuring time coherence between strats
- 6. The possible creation of a universal/general ALT TPI.

Due to the time consuming nature of building strategies, the idea of reducing the strategy number and adding other TPI components to provide signals especially for ALT's appears to be valid. Further insights suggest building combination TPI's for ALTs using baseline indicators to ensure time coherence. For instance, something simple like a 12 and 25 period EMA as a baseline macro trend scanner and then using that as a guideline.

Further work continues now with the implementation of the above. Continued strategy development and TPI components for ALT's, automation tests as well as scoring systems to determine asset allocation.



TPI by salxx. Combination of strats and TPI components



TPI by back. For combination of multiple strategies

Project Overkill v1.0

17.10.2023

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Design by TRW: Archenemy

With notable contributions from:

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Overview

This project's aim is to create a system based on aggregated strategies to provide investing signals for trending assets in the crypto space. The basic design centres around signals produced by 10 strategies per asset class, with 7 strats needed to be congruent in order to produce a valid signal. This may be reduced and/or automated in time.

Its design aims to take the benefits of SOPS, and combine it with flexible RSPS style allocations to take advantage of an ever changing market.

Further goals are the expansion of asset signals and automation.

This is a personal project and not financial advice. I'm not accountable for anything whatsoever presented here or your interpretation thereof.

Goals

- 1. To build a library of assets, each using 10 quality strategies
- 2. To create a scoring system for asset selection
- 3. To produce clean signals for portfolio management
- 4. To automate signals from TradingView into Google Sheets

Initial Testing

A selection of 7 assets were included in initial testing. These were selected because of them being consider a major, i.e. BTC, ETH, their position in market cap, ADA, SOL, BNB and a representation of shitcoins i.e. EGLD, VET selected from observation/experience.

Strategy Development

Strategies were developed and modified for each of these using the strats available in the MC Strat List. These include BTC, ETH, ETH, ADA & BNB. The strats used for EGLD, VET and SOL were developed and modified from existing sources and should be considered experimental. These have been managed and coded to ensure consistency with tables and for export and automation purposes:

| Strategy: | Value: | TV: | Component: | ETH |
|---------------------|--------|-----|------------|-----|
| AA ETH 1 - Archy | -1 | | ETH TPI: | |
| AA ETH 2 - Lawless | -1 | | LIII III. | _ |
| AA ETH 3 - Maverick | -1 | | | |
| AA ETH 4 - Faru | -1 | | | |
| AA ETH 5 - Pecker | -1 | | | |
| AA ETH 6 - Ocelot | -1 | | | |
| AA ETH 7 - Killer | -1 | | | |
| AA ETH 8 - Backslap | -1 | | 10 | 10 |
| AA ETH 9 - Gen5 | -1 | | -10 | / |
| AA ETH 0 - Haven | -1 | | | |
| TOTAL | -10 | | 10 | 0 |



Portfolio Building

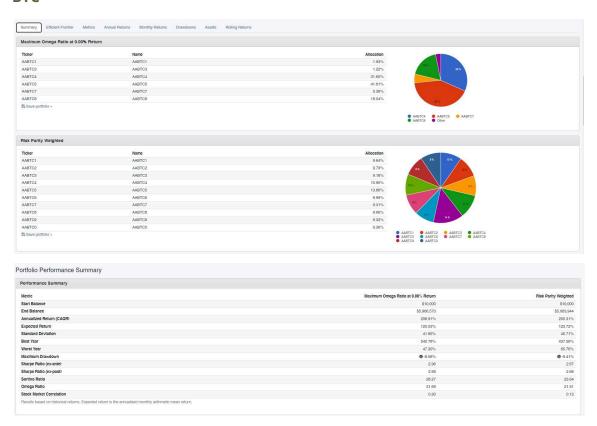
I. Portfolio Visualiser

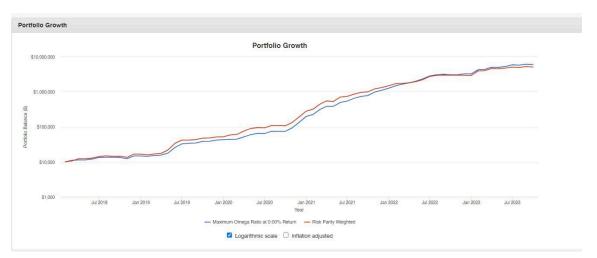
Each asset had all 10 strats indexed and imported into Portfolio Visualiser. Extreme imbalances were observed in some cases, but included as the system relies on aggregated strats. The optimisations using Risk Parity were considered as more reliable in this case case study, again due to the aggregated approach to the design.

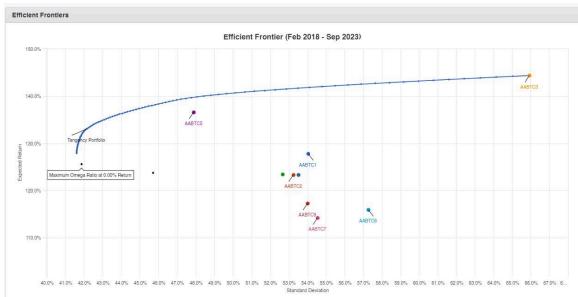
One more optimisation was done for the sake of science, i.e. an All-Stars portfolio using the best performing strategies of each set of strats.

Results were as follows:

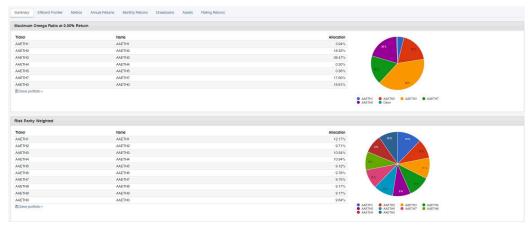
BTC



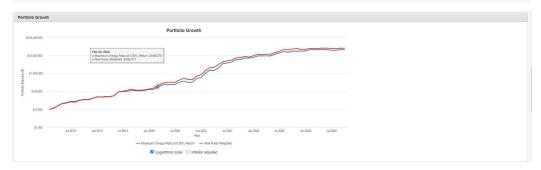


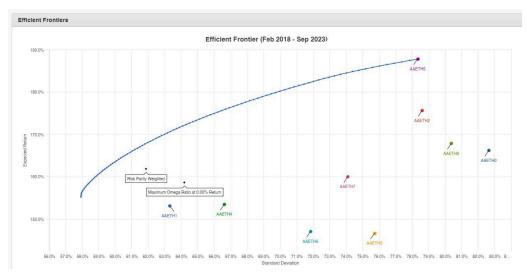


ETH

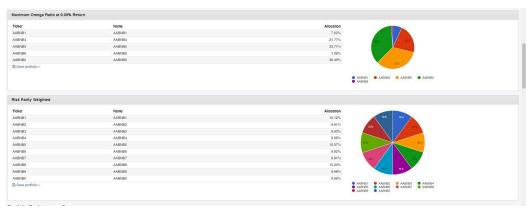




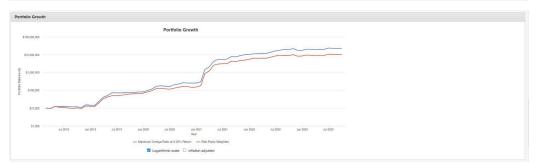


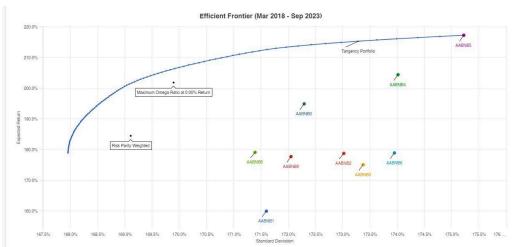


BNB

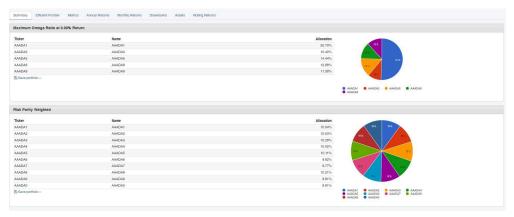




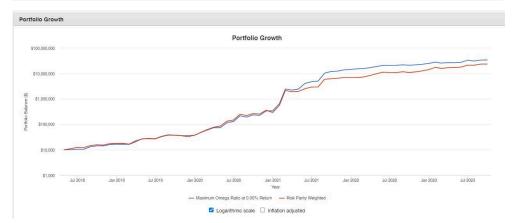


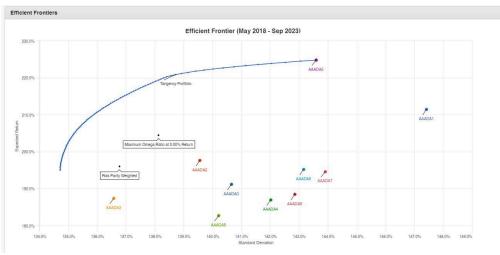


ADA

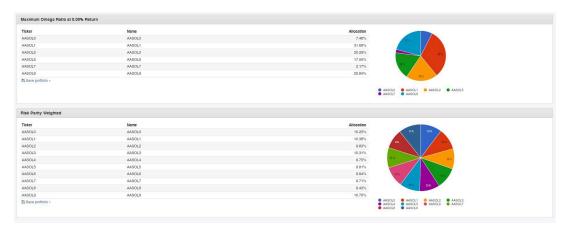




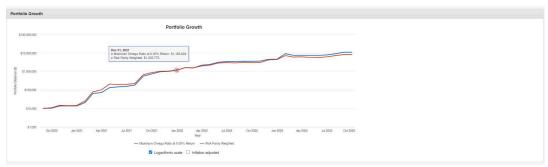


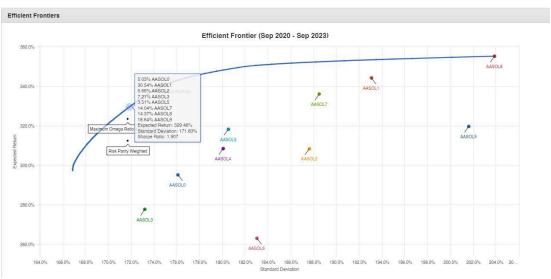


SOL

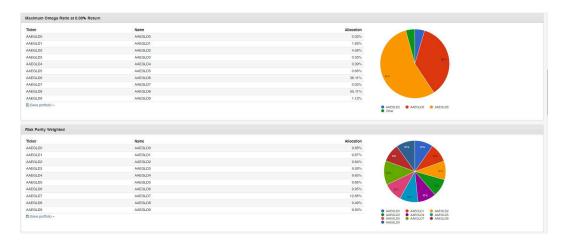




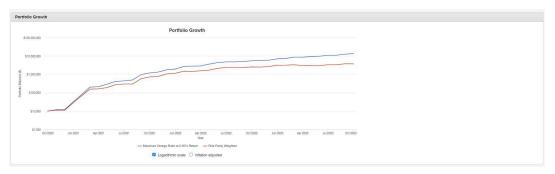


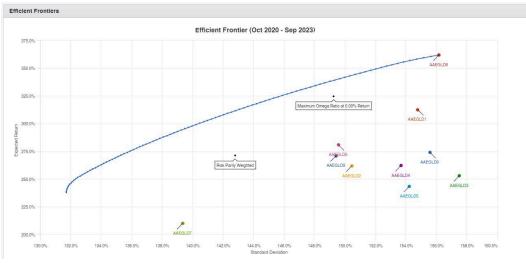


EGLD

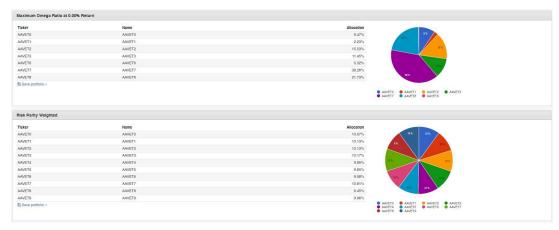




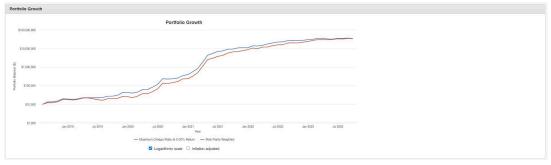


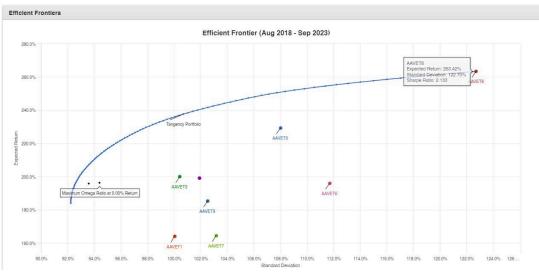


VET

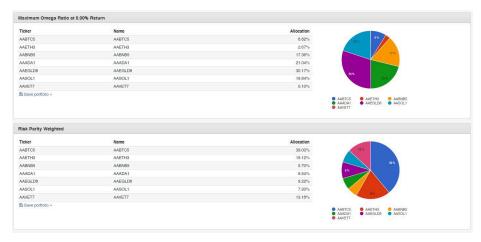




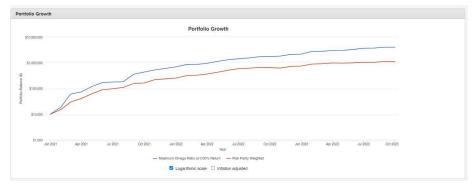


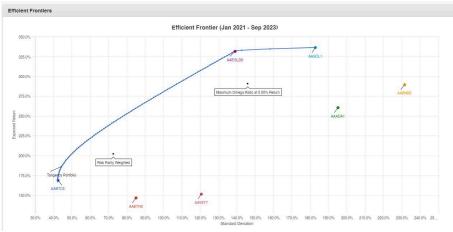


ALL STARS









II. Asset Allocations

The next step was to calculate suggesting weightings for assets using Downside Deviation. Two calculations were done. Omega & Risk Parity.

| | втс | ETH | BNB | ADA | SOL | EGLD | VET |
|--|------------------------|-------------------------|------------------------|-------------------------|-------------------------------|--------------------------|------------------------------|
| Downside Deviation | 1,19 | 2,4 | 2,98 | 2,37 | 2,98 | 0,01 | 3,83 |
| Inverse Volatility (1/Downside Dev) | 0,840336 | 0,416667 | 0,33557 | 0,421941 | 0,33557 | 100 | 0,261097 |
| Normalised Values (SUM PV1, PV2, PV3)) | | | | | | | 102,6112 |
| Normalised Weights (PV/SUM) | 0,00819 | 0,004061 | 0,00327 | 0,004112 | 0,00327 | 0,974553 | 0,002545 |
| Portfolio Amount | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| Allereties (Manuschied Mainha & Boutfalia) | 81 89518 | 40 60636 | 32,70311 | 41.12037 | 32,70311 | 9745,527 | 25.44524 |
| Allocation (Normalised Weights * Portfolio) | 01,03310 | 40,00030 | | | | | |
| Anocation (Normalised Weights * Portjollo) | BTC | ЕТН | BNB | ADA | SOL | EGLD | VET |
| Downside Deviation | | | | | | | VET 3,83 |
| Downside Deviation | BTC 1,41 | ETH 2,91 | BNB 3,5 | ADA | SOL 3,5 | EGLD | 3,83 |
| | BTC 1,41 | ETH 2,91 | BNB 3,5 | ADA 3,62 | SOL 3,5 | EGLD 1,61 | 3,83 |
| Downside Deviation Inverse Volatility (1/Downside Dev) | BTC 1,41 | ETH 2,91 | BNB 3,5 0,285714 | ADA 3,62 0,276243 | SOL 3,5 | EGLD 1,61 0,621118 | 3,83 0,261097 |
| Downside Deviation Inverse Volatility (1/Downside Dev) Normalised Values (SUM PV1, PV2, PV3)) | BTC 1,41 0,70922 | ETH 2,91 0,343643 | BNB 3,5 0,285714 | ADA 3,62 0,276243 | SOL 3,5 0,285714 | EGLD 1,61 0,621118 | 3,83 0,261097 2,782749 |

In the Omega version, an extreme irregularity was observed. There was no downside deviation in the EGLD set of strats. Value was 0%. (When replaced with the value from the Risk Parity optimisation, the allocation percentages were similar.)

Final allocation amounts were:

| BTC | ETH | BNB | ADA | SOL | EGLD | VET |
|--------|--------|--------|-------|--------|--------|-------|
| 25,49% | 12,35% | 10,27% | 9,93% | 10,27% | 22,32% | 9,38% |

From the above, possible conclusions from this were that this could be averaged to a position size and managed with a scoring system to determine the portfolio allocation. Initial idea is a slot based system of 7 assets trading perpetually.

III. Expectations

It is my personal expectation that the majors should at the very least 3x during the next market cycle, with selected ALT's performing from 5 - 7x from bottom to peak.

The goal of this portfolio is not to create the most efficient portfolio on earth, but rather a conservative one with a higher chance of success. An average of a minimum of 5x is the goal of this portfolio. With a goal of an average of 5x across all assets, and a further goal of -5x on the way down from the peak of the next run, the expectations of the portfolio are as follows:

With a portfolio of \$100,000:

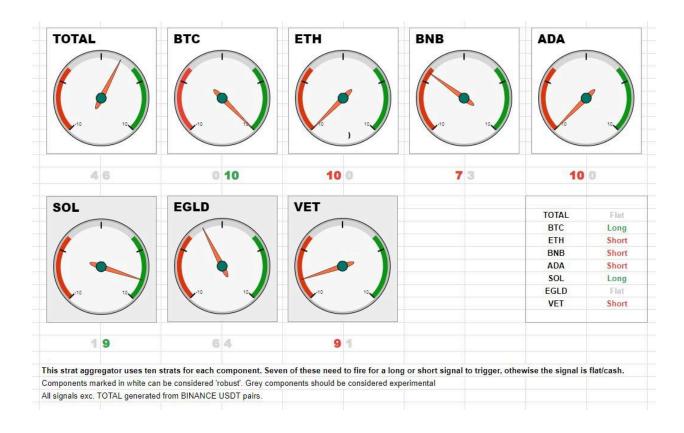
 $100,000 \times 5 \times 5 = 2,500,000$

Anything else in my mind is a bonus and should be considered **OVERKILL.**

Signals

The first signals from this project take the form of gauges showing how many strats are firing LONG or SHORT.

| Strategy: | Value: | TV: | Component: | ETH |
|---------------------|--------|-----|------------|-----|
| AA ETH 1 - Archy | -1 | | ETH TPI | • |
| AA ETH 2 - Lawless | -1 | | EIN IFI. | _ |
| AA ETH 3 - Maverick | -1 | | | |
| AA ETH 4 - Faru | -1 | | | |
| AA ETH 5 - Pecker | -1 | | | |
| AA ETH 6 - Ocelot | -1 | | | |
| AA ETH 7 - Killer | -1 | | | |
| AA ETH 8 - Backslap | -1 | | 10 | 10. |
| AA ETH 9 - Gen5 | -1 | | -10 | / |
| AA ETH 0 - Haven | -1 | | | |



Gauges show how many strats are firing LONG or SHORT. Conditional formatting colours the values green or red if they are greater than 7. Gauges are set up to signal flat when the strat count is less than 7. If the gauge is grey, this indicates neutral or CASH.

Extended Asset Selection

The next phase of the project now moves into first, extending asset selection through the development of new strategies, second, the creation of a scoring system to manage asset allocation and third, the automation thereof to provide signals in Google Sheets. Strats wanted, but are not limited to are:

SOL EGLD VET LINK

AVAX

DOGE

DOT

TRON

MATIC

AAVE

ALGO

RUNE

SHIB

New strat ideas and coins are welcome. If you would like to contribute to this project, please dm me in TRW requesting access to the project: