

COELHO Finance

RAFAEL COELHO

THIS PROJECT WAS BUILT WITH THE FOLLOWING TOOLS:



STREAMLIT



PANDAS



NUMPY



plotly



STATSMODELS



PYTHON

[Yahoo Finance](#) | [Yahoo Query](#) | [Investpy](#) | [CvxPy](#) | [Anomaly Detection Tool Kit \(ADTK\)](#) | [Streamfy](#) | [Quantstats](#) | [ARCH](#) | [SKtime](#)

COELHO Finance is a Financial Market tool that you can use to get and analyze assets data from many countries.

This tool has the following features:

UNIMARKET: Dive deep into individual stocks and indexes from over 40 countries. With detailed financial statements, price charts, and business indicators, uncover undervalued stocks ripe for growth.

UNISTATS: Harness the power of statistical models. From outlier detections and forecast models to volatility analyses, COELHO Finance equips you with the tools to navigate the complexities of the market.

MULTIMARKET: Compare and contrast stocks with ease. Understand market trends and make informed decisions on buying and selling, backed by data-driven insights.

Join us in redefining investment analysis. Explore the potential of data in driving your investment success with COELHO Finance!

COELHO Finance

Author: Rafael Silva Coelho

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About Us



COELHO Finance

A new powerful tool to help you make informed investment decisions, track your investments and identify opportunities.

UNIMARKET

Analyze individual stocks

COELHO Finance provides comprehensive analysis of individual stocks and indexes from 40+ countries, including financial statements, price charts, analyst ratings and several business indicators about each stock price. This information can help you identify undervalued stocks with the potential for growth.

UNISTATS

Get statistical informations

COELHO Finance brings to you statistical models as outlier detections, moving averages, forecast models, anomaly detection, volatility models and Monte Carlo simulations.

This tool provides information for general purposes and should not be taken as investment advice. It doesn't account for individual financial circumstances or goals.

Users should make investment decisions based on their own financial needs and risk tolerance, and consult with a professional advisor. Past performance of securities or strategies doesn't guarantee future results. The tool's creators are not responsible for any financial decisions or losses resulting from its use.

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Asset type

Stocks

Market

AMERICA

Select market

Stock (AMERICA)

AAPL - Apple Inc. (apple)

Period

1 year

Interval

1 day

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AAPL - Apple Inc. (apple)

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OHLC filters

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AAPL - Apple Inc. (apple)



Volume



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Recommendations

Recommendations (Score)

Symbol: AMZN

0.320581

Symbol: TSLA

0.300875

Symbol: GOOG

0.284221

Symbol: META

0.271916

Symbol: MSFT

0.219623

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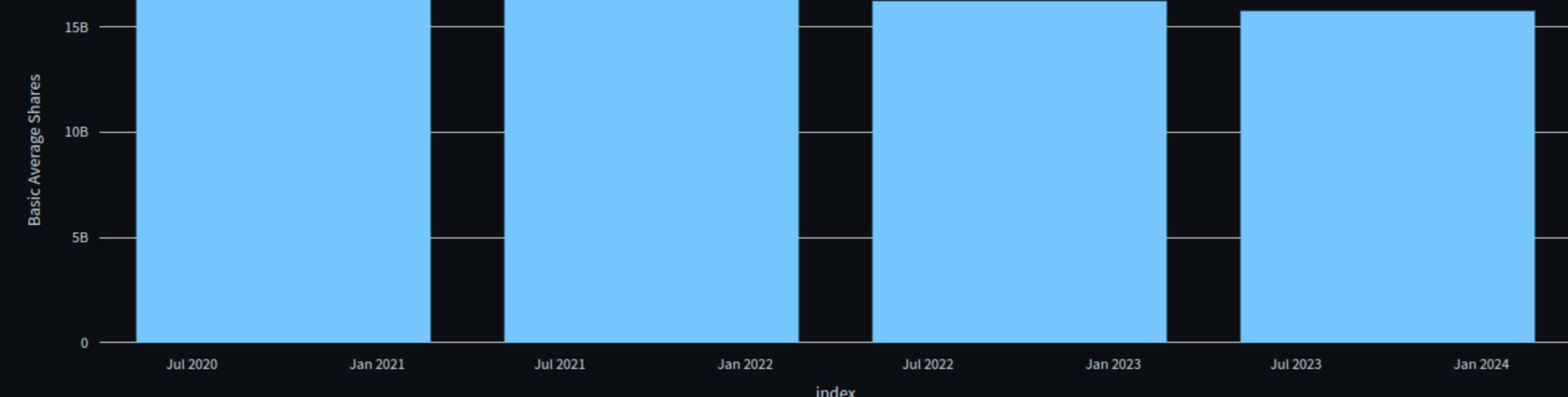
Financials Income Statement Balance Sheet Cash Flow Holders Earnings Valuation Measures Shares Full Dividends & Splits Trend Opt

Financials Quarterly Financials Financial Data

Financials

Feature

Basic Average Shares



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Instrument Info Company Snapshot Recommendation Upsell Upsell Search Events Reports SEC Reports

Instrument Info

Technical Events

Technical Events

Provider: Trading Central**Sector:** Technology

Key Technicals

Key Technicals

Provider: Trading Central**Support:** 173.57**Resistance:** 226.34**Stop loss:** 208.769644

Valuation

Valuation

Color: 0.0**Description:** Overvalued**Discount:** -5%**Relative value:** Premium**Provider:** Trading Central

Short Term Outlook

Short Term Outlook

State description: Recent bearish events outweigh bullish events.**Direction:** Bearish**Score:** 4**Score description:** Very Strong Bearish Evidence**Sector direction:** Bearish**Sector score:** 4**Sector score description:** Very Strong Bearish Evidence**Index direction:** Bearish**Index score:** 4**Index score description:** Very Strong Bearish Evidence

Intermediate Term Outlook

Intermediate Term Outlook

State description: Bullish events outweigh bearish events.**Direction:** Bullish**Score:** 2**Score description:** Bullish Evidence**Sector direction:** Bullish**Sector score:** 1**Sector score description:** Weak Bullish Evidence**Index direction:** Bearish**Index score:** 3**Index score description:** Strong Bearish Evidence

Long Term Outlook

Long Term Outlook

State description: All events are bullish.**Direction:** Bullish**Score:** 2**Score description:** Bullish Evidence**Sector direction:** Neutral**Sector score:** 0**Sector score description:** No Evidence**Index direction:** Bullish**Index score:** 1**Index score description:** Weak Bullish Evidence

Manage app

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Manage app

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UNISTATS - Stocks

OHLC filters OHLC Open High Low Close Volume Adj Close

Moving Average filters

Moving Average window

SMA

EMA

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AAPL - Apple Inc. (apple)



Volume



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AAPL - Apple Inc. (apple)

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Period

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Interval

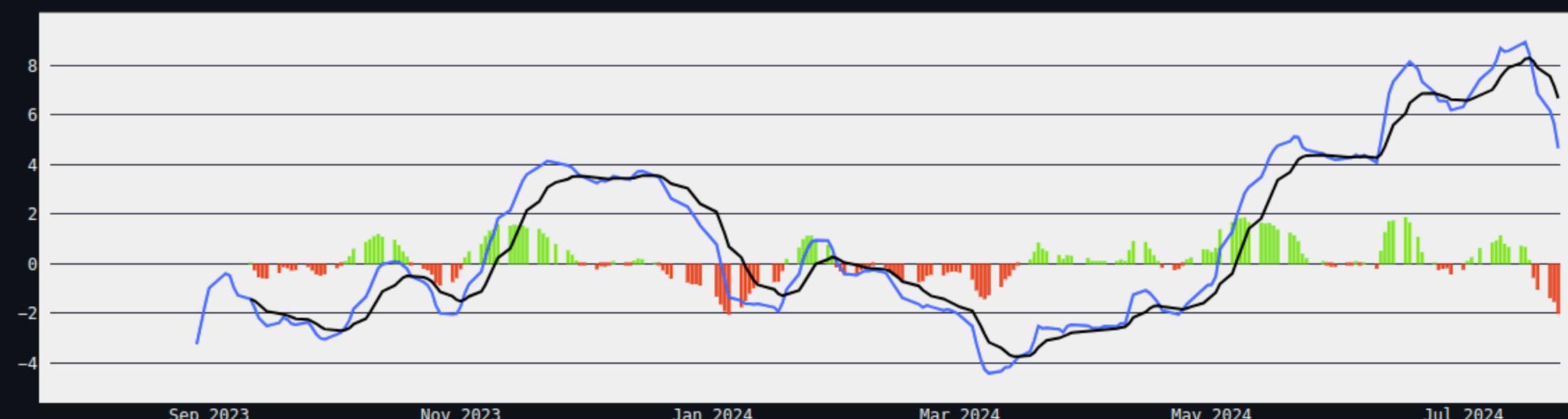
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Outliers RSI MACD

MACD - Moving Average Convergence/Divergence



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Monte Carlo Simulations

Feature

Adj Close

Interval

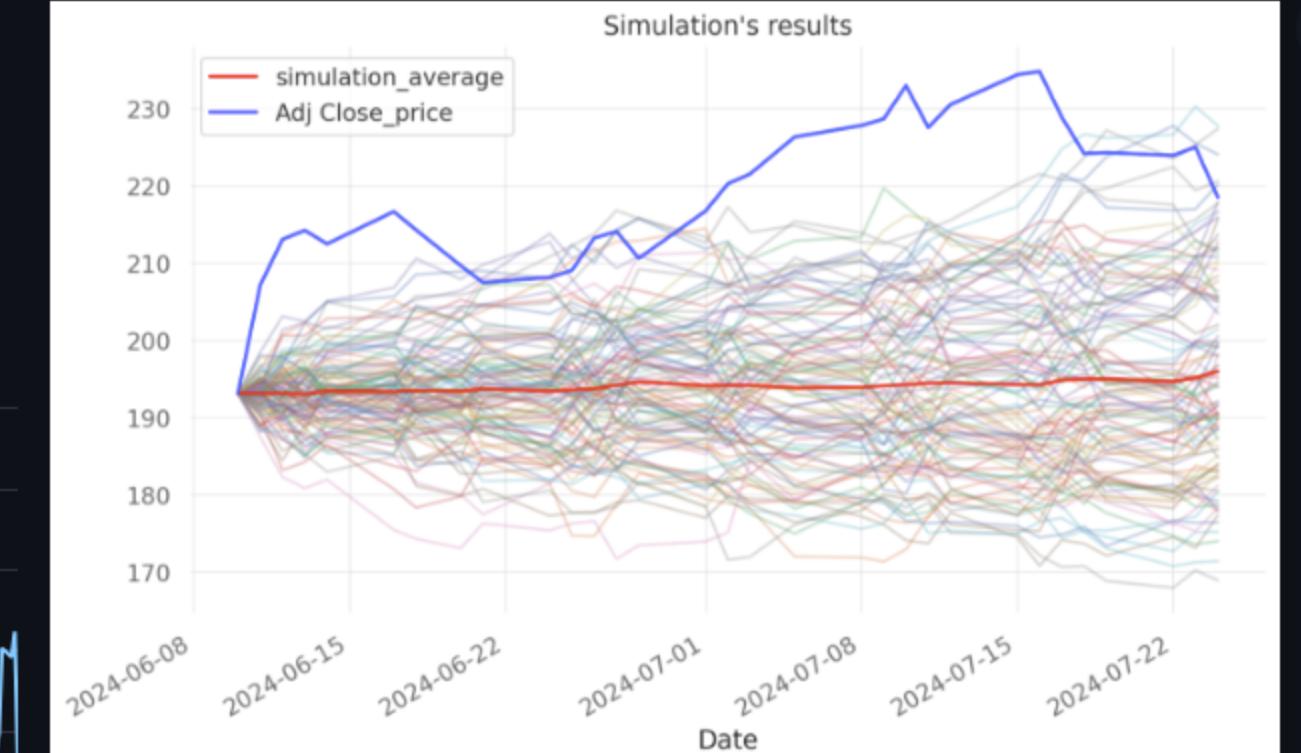
30 days

Number of simulated paths

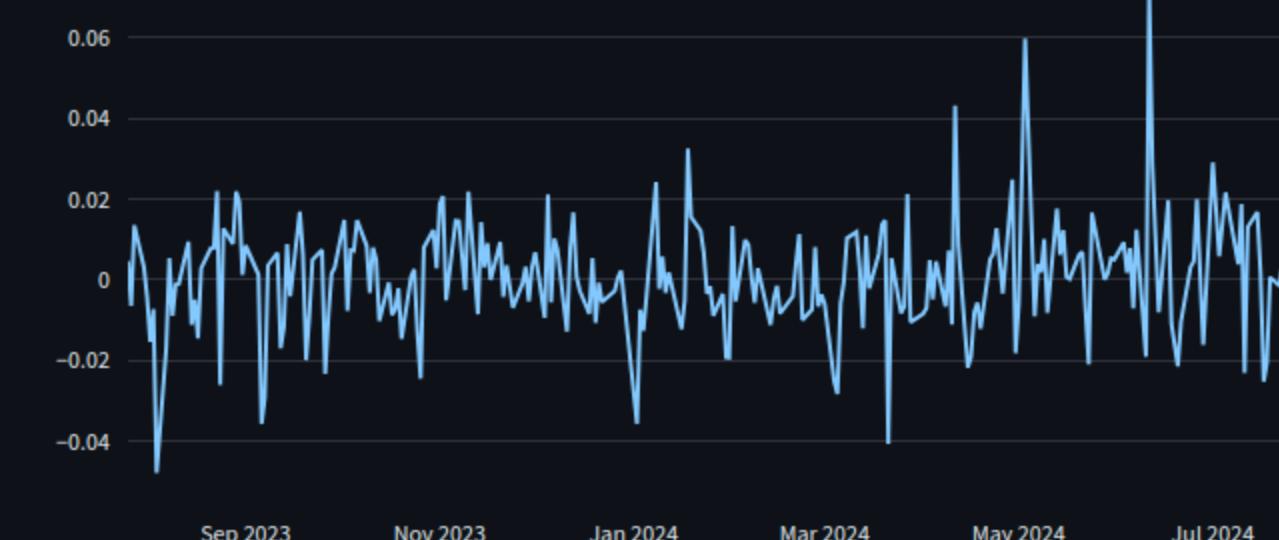
100

10000

Simulation's results



Returns



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GOOGL - Alphab...

IBM - Internation...

MSFT - Microsoft...

Feature

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1 year

Interval

1 day

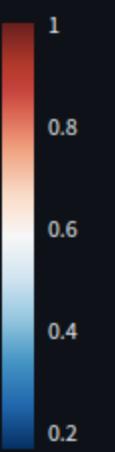
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Comparison Chart



Correlation matrix (Close)

	AAPL	GOOGL	IBM	MSFT
AAPL	1	0.6062593	0.1660385	0.498329
GOOGL	0.6062593	1	0.5069845	0.823441
IBM	0.1660385	0.5069845	1	0.8518435
MSFT	0.498329	0.823441	0.8518435	1



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Multivariate Volatility Forecast

RETURNS



Conditional Correlation Matrix

	AAPL	GOOGL	IBM	MSFT
AAPL	4.418252	2.135453	0.3263827	1.300175
GOOGL	2.135453	5.780515	0.5131438	1.507722
IBM	0.3263827	0.5131438	2.099758	0.4439586
MSFT	1.300175	1.507722	0.4439586	1.702152



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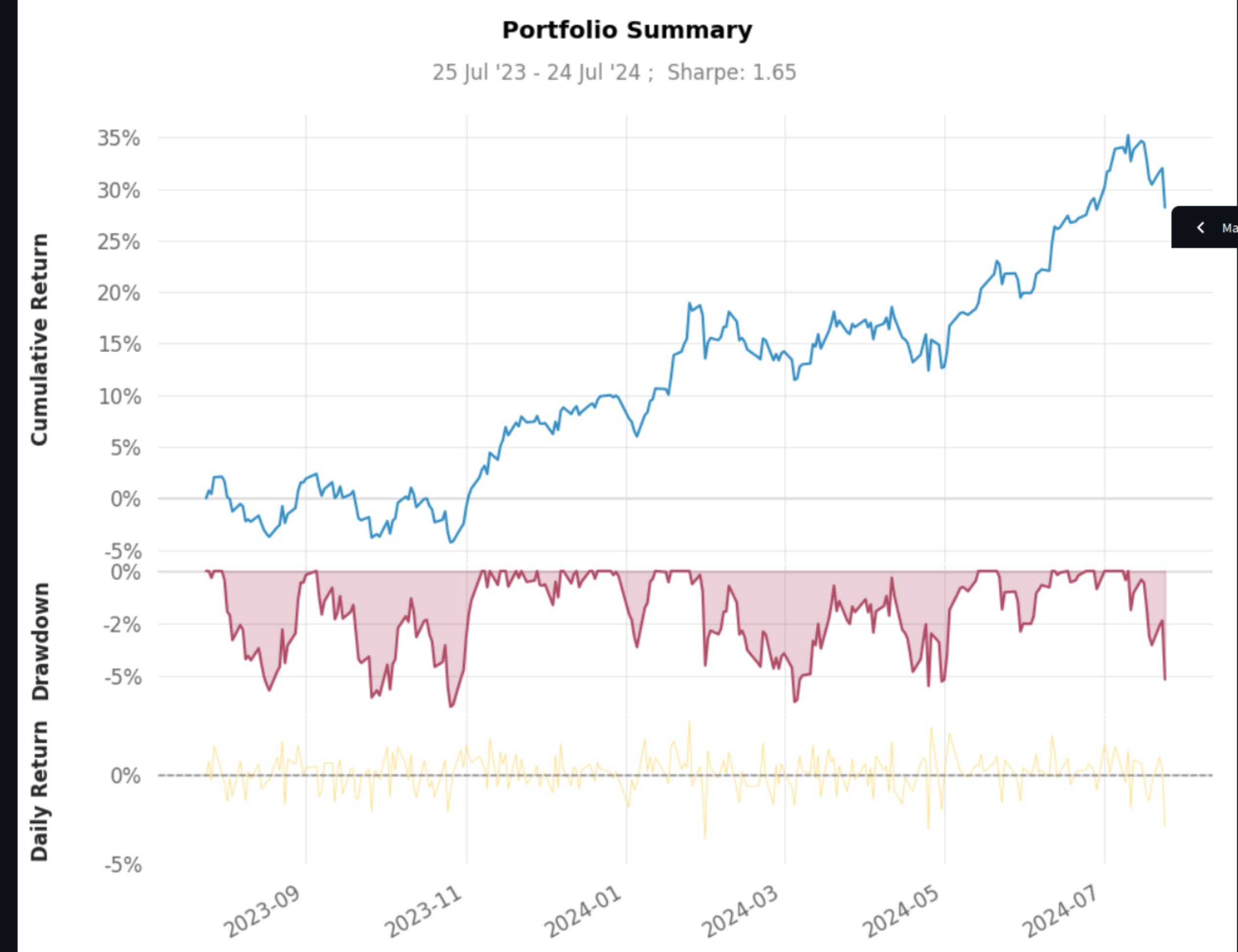
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Equally-weighted Portfolio Efficient Frontier Efficient Frontier & Risk Aversion

Equally-weighted Portfolio

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IBM - Internation... x

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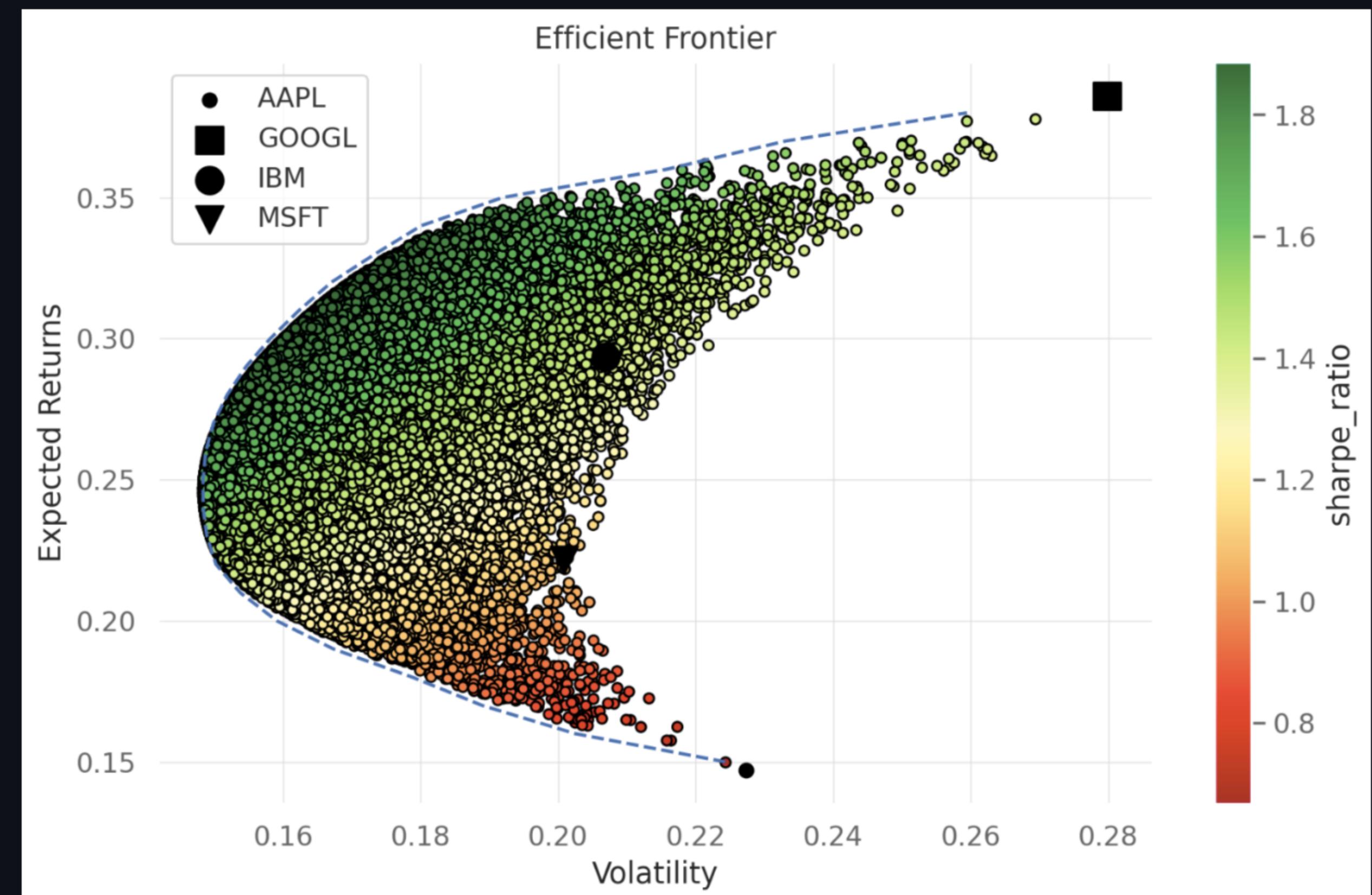
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Efficient Frontier (Monte Carlo Simulation)



Let's work together!



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