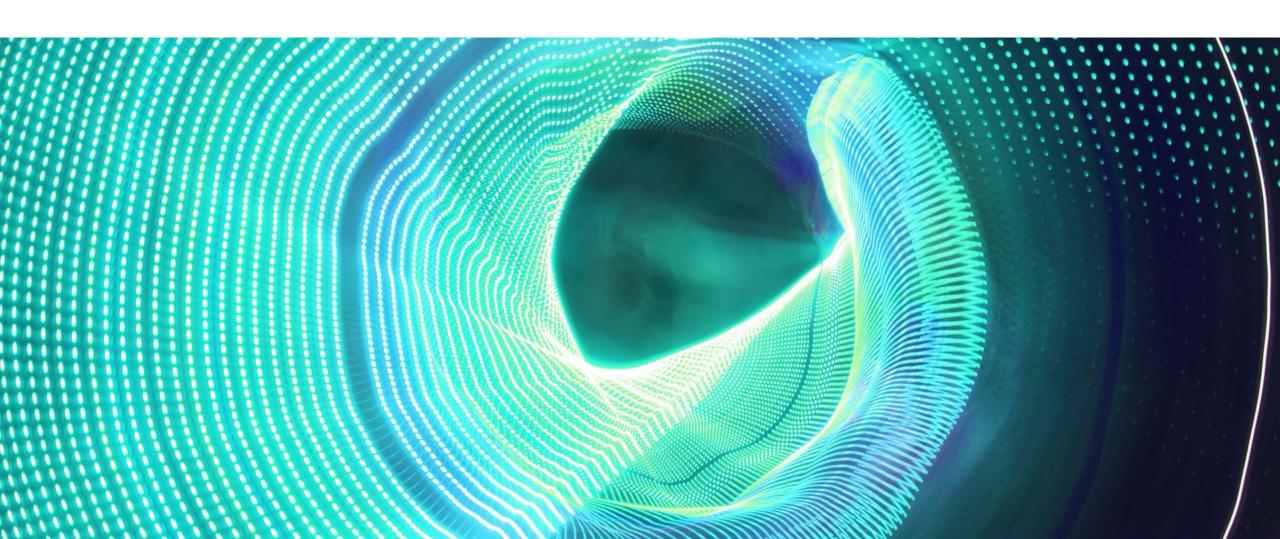
Cryptoassets



Summary

- The following codes will try to incorporate cryptoassets into data science and ML environment.
- Cryptoassets are more volatile and risky, however, investors may expect higher returns vis-a-vis stocks and ETF´s.

Libraries

Numpy plotly Requests PyPortfolioOpt Riskfolio Yfinance

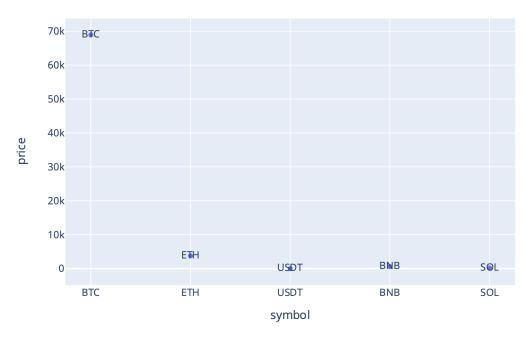
Code 1: Extraction and clustering

Stage 1: Extraction and visualization



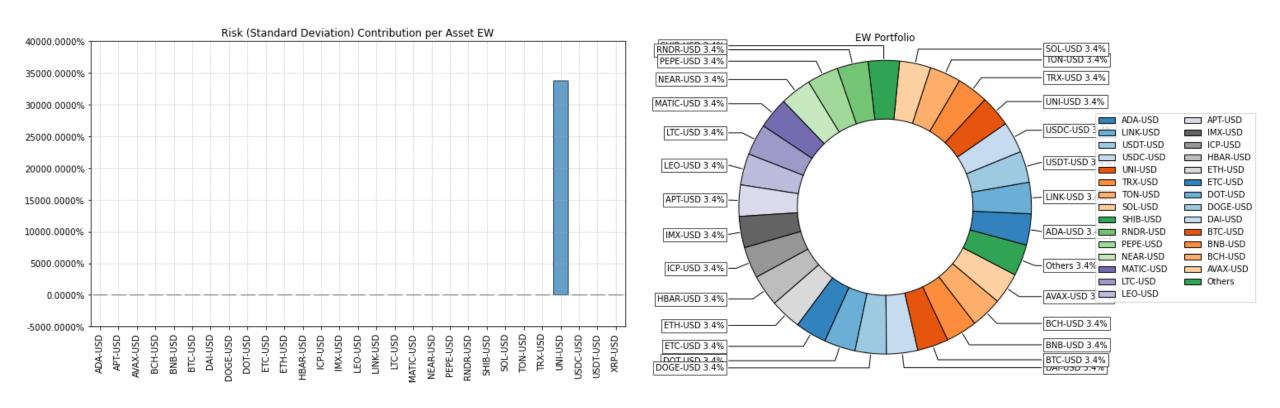
API, JSON, DF

Crypto-currency price



Plotly within the console

Stage 2: Equal weight porfolio



29 cryptos, symbols extracted from API, last 5 years data from yfinance. EW portfolio built with riskfolio, error.

Code 2: Optimization using PyPortfolioOpt

- print("Expected Return:", expected_return)
- print("Volatility:", volatility)
- print("Sharpe Ratio:", sharpe_ratio)

Eigenvalues did not converge, due to extreme volatility

Conclusiones