Multi-Asset Comparison

Cross-Asset Class Performance & Correlation Analysis

Multi-Asset Performance Comparison

Asset	Class	Return	Volatility	Sharpe	Max Drawdown
S&P 500 (SPY)	Equity	+9.26%	11.3%	1.183	-5.07%
Nasdaq 100 (QQQ)	Equity	+10.48%	15.3%	1.052	-7.88%
Bitcoin (BTC-USD)	Crypto	-24.57%	30.4%	-1.288	-32.15%
Ethereum (ETH-USD)	Crypto	-21.15%	56.1%	-0.395	-42.76%
Gold (GLD)	Commodity	+47.61%	20.9%	3.597	-10.13%
20Y Treasury (TLT)	Fixed Income	+4.67%	9.3%	0.489	-4.83%
Real Estate (VNQ)	REIT	+0.57%	12.8%	-0.238	-4.91%

Cross-Asset Correlation Matrix

	SPY	QQQ	BTC-USD	ETH-USD	GLD	TLT	VNQ
SPY	1.00	0.95	nan	nan	0.08	0.04	0.35
QQQ	0.95	1.00	nan	nan	0.08	0.01	0.17
BTC-USD	nan	nan	nan	nan	nan	nan	nan
ETH-USD	nan	nan	nan	nan	nan	nan	nan
GLD	0.08	0.08	nan	nan	1.00	0.02	0.08
TLT	0.04	0.01	nan	nan	0.02	1.00	0.30
VNQ	0.35	0.17	nan	nan	0.08	0.30	1.00

Diversification Analysis:

- Low correlation between asset classes provides diversification benefits
- Crypto assets typically show higher volatility but potential uncorrelated returns
- Gold and Treasuries often provide hedging during equity drawdowns

Methodology: Data from Yahoo Finance. Period returns over 6 months. Volatility and Sharpe annualized. Maximum drawdown computed from peak-to-trough. Correlation matrix uses Pearson correlation on daily returns.

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Data Source: Yahoo Finance