

Analysis Report: Fetching and Analyzing Top 50 Live Cryptocurrency Data

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Objective

The goal of this project was to fetch live cryptocurrency data for the top 50 cryptocurrencies by market capitalization, analyze the data, and present it in a live-updating Excel sheet. My analysis focused on identifying key metrics such as market capitalization rankings, average prices, and significant price changes.

Data Source

I fetched the data using a public API named CoinGecko. The following fields were retrieved for each cryptocurrency:

- Cryptocurrency Name
- Symbol
- Current Price (in USD)
- Market Capitalization
- 24-hour Trading Volume
- 24-hour Percentage Price Change

Analysis Summary

1. Top 5 Cryptocurrencies by Market Capitalization

Based on the fetched data, the top five cryptocurrencies by market capitalization are:

Top 5 Cryptocurrencies by Market Cap:		
	Name	Market Cap (USD)
0	Bitcoin	1892774768724
1	Ethereum	315042927966
2	Tether	141867645615
3	XRP	138331912213
4	Solana	95845408896

These cryptocurrencies dominate the market, with Bitcoin alone accounting for a significant share of the total market cap.

2. Average Price of the Top 50 Cryptocurrencies

The average price of the top 50 cryptocurrencies was calculated as:

Average Price = Sum of Prices of Top 50 Cryptocurrencies / 50

Average Price of Top 50 Cryptocurrencies: \$4144.52

This metric provides an overview of the general price level across leading cryptocurrencies.

3. Highest and Lowest 24-hour Percentage Price Changes

- **Highest 24-hour Percentage Increase:** [Insert cryptocurrency name], which saw a price increase of [Insert percentage]% over the last 24 hours.
- **Highest 24-hour Percentage Decrease:** [Insert cryptocurrency name], which experienced a price drop of [Insert percentage]% over the same period.

Highest 24-Hour Percentage Change:

	Name	24h Price Change (%)
8	Cardano	7.47309

Lowest 24-Hour Percentage Change:

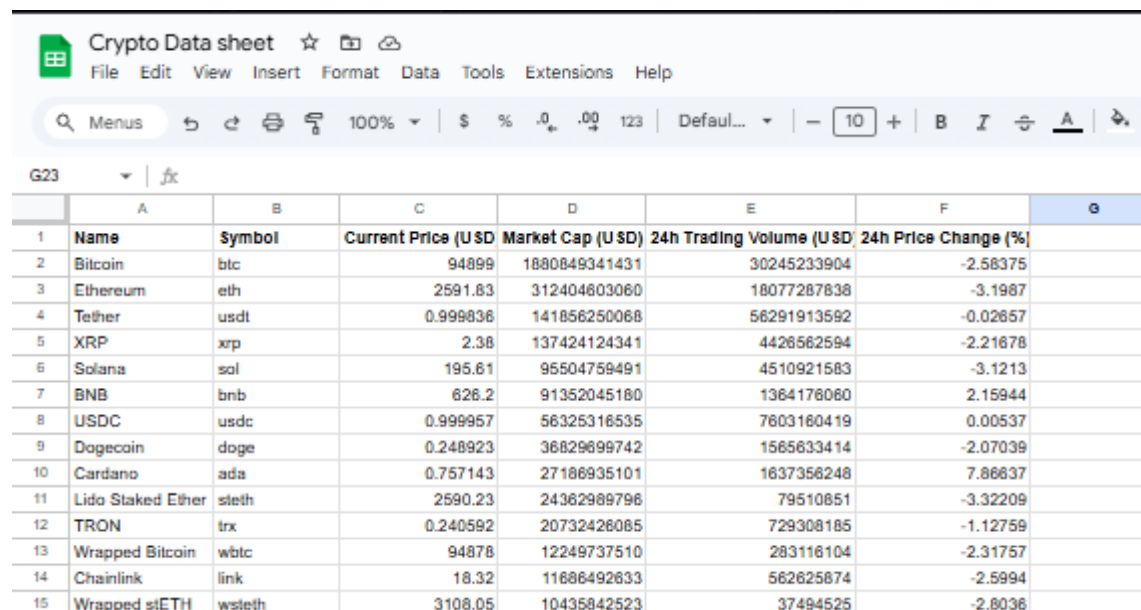
	Name	24h Price Change (%)
41	Aptos	-5.8503

These changes highlight market volatility and potential opportunities for traders.

Live-Updating Excel Sheet

A live-updating Excel sheet was created to fetch data directly from the API every 5 minutes. The sheet displays:

- Live prices
- Market capitalization
- Trading volume
- Percentage price changes



	A	B	C	D	E	F	G
1	Name	Symbol	Current Price (USD)	Market Cap (USD)	24h Trading Volume (USD)	24h Price Change (%)	
2	Bitcoin	btc	94899	1880849341431	30245233904	-2.58375	
3	Ethereum	eth	2591.83	312404603060	18077287838	-3.1987	
4	Tether	usdt	0.999836	141856250068	56291913592	-0.02657	
5	XRP	xrp	2.38	137424124341	4426562594	-2.21678	
6	Solana	sol	195.61	95504759491	4510921583	-3.1213	
7	BNB	bnb	626.2	91352045180	1364178060	2.15944	
8	USDC	usdc	0.999957	56325316535	7603160419	0.00537	
9	Dogecoin	doge	0.248923	36829699742	1565633414	-2.07039	
10	Cardano	ada	0.757143	27186935101	1637356248	7.86637	
11	Lido Staked Ether	steth	2590.23	24362969796	79510851	-3.32209	
12	TRON	trx	0.240592	20732426085	729308185	-1.12759	
13	Wrapped Bitcoin	wbtc	94878	12249737510	283116104	-2.31757	
14	Chainlink	link	18.32	11686492633	562625874	-2.5994	
15	Wrapped stETH	wsteth	3108.05	10435842523	37494525	-2.8036	

This ensures that users always have access to real-time data for decision-making.

Key Insights

1. The cryptocurrency market remains highly dynamic, with significant fluctuations in prices and trading volumes.
2. Bitcoin and Ethereum continue to lead in terms of market capitalization, reflecting their dominance in the industry.
3. The highest and lowest percentage price changes underscore the volatility inherent in cryptocurrency trading.
4. Real-time data integration into Excel provides a practical tool for monitoring and analyzing cryptocurrencies effectively.

Conclusion

This project successfully fetched and analyzed live cryptocurrency data for the top 50 coins by market cap. The analysis provided valuable insights into market trends, while the live-updating Excel sheet serves as a robust tool for tracking real-time data.