**Cryptocurrency Market Analysis Report**

**1. Introduction**

This report offers a concise analysis of the market capitalization top 50 cryptocurrencies, retrieved from the CoinGecko API. The information presented includes current price, market capitalization, 24-hour trading volume, and percentage price change in the last 24 hours.

**2. Key Insights**

**🔝 Top 5 Cryptocurrencies by Market Capitalization**

The following cryptocurrencies have the highest market capitalizations:

1. Bitcoin - Market Capitalization: $1698046139336
2. Ethereum - Market Capitalization: $266611876763
3. Tether - Market Capitalization: $142358149569
4. XRP - Market Capitalization: $130529150782
5. BNB - Market Capitalization: $88381923827

**📊 Average Price**

* The average price of the top 50 cryptocurrencies is **$5416.61**.

**📈 Highest 24-Hour Price Change**

* The cryptocurrency with the largest positive price change in the last 24 hours is **Hedera** with a change of **8.73936**.

**📉 Lowest 24-Hour Price Change**

* The cryptocurrency with the largest negative price change in the last 24 hours is **Litecoin** with a change of **-3.65283**.

**3. Visual Analysis**

Two key visualizations were created:

1. **Top 5 Cryptocurrencies by Market Capitalization**
   * A bar chart displaying the market caps of the top 5 cryptocurrencies.
2. **Distribution of 24-Hour Price Changes**
   * A histogram illustrating the distribution of percentage price changes among the top 50 cryptocurrencies, highlighting market volatility.
3. **Conclusion**

The analysis indicates a volatile cryptocurrency market with large price fluctuations in the last 24 hours. The top cryptocurrencies by market cap remain dominant, while smaller coins are more volatile.

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