**Cryptocurrency Data Analysis Report**

**Deepanshu Verma**

**1. Introduction**

The objective of this analysis is to fetch, analyze, and present live data for the top 50 cryptocurrencies by market capitalization. The live data is fetched from the CoinGecko API and includes key metrics such as current price, market capitalization, trading volume, and 24-hour percentage price change. The data is continuously updated in an Excel sheet every five minutes, and this report summarizes the key findings.

**2. Data Overview**

**Source:**

The live cryptocurrency data is fetched using the CoinGecko API, which provides real-time information for the top cryptocurrencies.

**Fields Used:**

* **Cryptocurrency Name**: The name of the cryptocurrency (e.g., Bitcoin, Ethereum).
* **Symbol**: The ticker symbol for the cryptocurrency (e.g., BTC, ETH).
* **Current Price (USD)**: The current market price in U.S. dollars.
* **Market Capitalization (USD)**: The total market value of the cryptocurrency.
* **24-hour Trading Volume (USD)**: The total volume of the cryptocurrency traded in the last 24 hours.
* **Price Change (24-hour, %)**: The percentage change in price over the last 24 hours.

**3. Key Findings**

**3.1- Top 5 Cryptocurrencies by Market Capitalization**

The following are the top 5 cryptocurrencies by market capitalization:

1. **Bitcoin (BTC)**
2. **Ethereum (ETH)**
3. **XRP (XRP)**
4. **Tether (USDT)**
5. **Solana (SOL)**

**3.2- Average Price of the Top 50 Cryptocurrencies**

The average price of the top 50 cryptocurrencies is **$27,800.45** (based on the sample data fetched).

**3.3 Highest and Lowest 24-hour Percentage Price Change**

* **Highest 24-hour Change:** Cardano (ADA) with a 15.14% increase.
* **Lowest 24-hour Change:** MANTRA (OM) with a -2.97% decrease.

**4. Conclusion**

This analysis provides a snapshot of the current state of the cryptocurrency market. Bitcoin and Ethereum continue to dominate in terms of market capitalization, while other altcoins such as XRP and Solana show significant market presence. The 24-hour percentage changes reveal high volatility, which is a common characteristic of the cryptocurrency market.

The live-updating Excel sheet ensures that the data remains current and relevant for further analysis and decision-making.