

Given the time constraints alongside my ongoing exams, I was able to develop a Python program that fetches data for the top 50 cryptocurrencies using the CoinGecko API. The program generates an Excel file named `"crypto_data.xlsx"` with this data. However, I encountered an issue where the file did not automatically refresh without continuously running the Python code.

To address this, I created a second Excel file, `"Top_50.xlsx"` in which I linked the CoinGecko API directly. This setup allows the file to refresh automatically every 5 minutes, ensuring that it always displays up-to-date information.

Link:

Moving forward, I will now present the key insights and analysis derived from the fetched data during the running of code.

The data fetched includes the following key metrics for each of the top 50 cryptocurrencies:

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

3. Key Findings

The following cryptocurrencies represent the top 5 by market capitalization:

1. Bitcoin

2. Ethereum
3. Tether
4. XRP
5. BNB

Average Price of Top 50 Cryptocurrencies

The average price of the top 50 cryptocurrencies is calculated to be \$4190. This figure provides insight into the overall market price level.

3.3 Price Change Analysis at the moment of running code

- Highest 24-hour Price Change:
 - Cryptocurrency: Monero
 - Change: 0.68
- Lowest 24-hour Price Change:
 - Cryptocurrency: Virtuals Protocol
 - Change: -16.2

This analysis highlights the most volatile cryptocurrencies in the last 24 hours, which could indicate potential trading opportunities.

