

Crypto Automated Puller

This Python program automates the retrieval of Bitcoin price data from CoinMarketCap and saves it to a CSV file. The program pulls the current price at regular intervals, appending each record with a timestamp, making it ideal for tracking changes over time.

Features:

- **Automated Data Retrieval:** Fetches real-time Bitcoin price data from CoinMarketCap.
- **Data Cleaning:** Extracts and cleans the price data for easy analysis.
- **CSV Storage:** Appends each entry with a timestamp to a CSV file for historical tracking.
- **Flexible Timing:** Configurable delay for repeated data pulls.

Prerequisites:

- **Python 3.x:** Make sure Python 3.x is installed.
- **Libraries:** Install the following libraries via pip if not already installed:

`pip install requests beautifulsoup4 pandas`

Code Structure:

The project consists of a function `automated_crypto_pull()` that:

1. **Fetches HTML** from CoinMarketCap's Bitcoin page.
2. **Parses and cleans** the price data using BeautifulSoup.
3. **Appends the data** with a timestamp to a CSV file, creating the file if it doesn't exist.

Usage:

1.Run the Script

2.Data Storage: The data will be stored in `Crypto_Automated_Pull.csv` in the specified directory

3.File Appending: The program checks for an existing file; if found, new data is appended without headers to avoid duplication.

Sample Output:

The CSV file will have the following structure:

Crypto Name	Price	Timestamp
Bitcoin	42,000	2024-11-12 10:15:00

Configuration:

To adjust the **interval time** between each pull, modify the `time.sleep()` duration at the end of the script. The current setting is every 10 seconds.