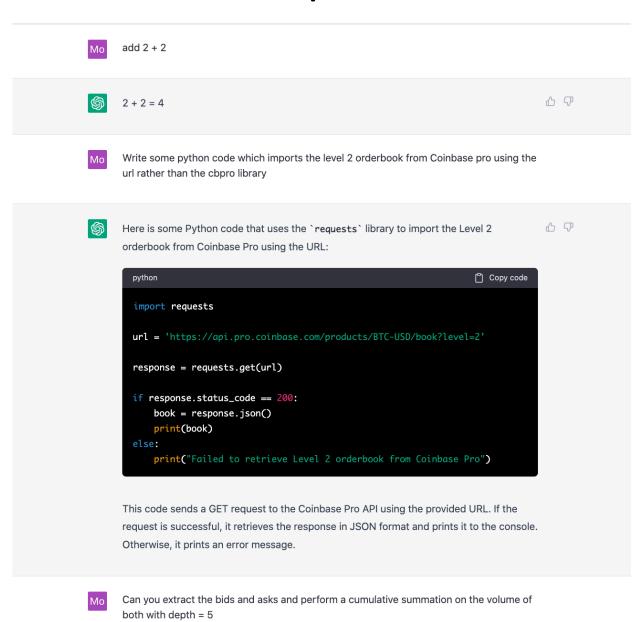
CHAT GPT w/ Bitcoin Data



Mo Can you extract the bids and asks and perform a cumulative summation on the volume of both with depth = 5



Sure! Here's an updated version of the Python code that extracts the bids and asks and performs a cumulative summation on the volume of both with depth = 5:



```
import requests

url = 'https://api.pro.coinbase.com/products/BTC-USD/book?level=2'

response = requests.get(url)

if response.status_code == 200:
    book = response.json()
    bids = book['bids'][:5]
    asks = book['asks'][:5]

cumulative_bid_volume = [sum([float(bid[1]) for bid in bids[:i+1]]) for cumulative_ask_volume = [sum([float(ask[1]) for ask in asks[:i+1]]) for print(f'Cumulative Bid Volume: {cumulative_bid_volume}')
    print(f'Cumulative Ask Volume: {cumulative_ask_volume}')
else:
    print("Failed to retrieve Level 2 orderbook from Coinbase Pro")
```

This code extracts the top 5 bids and asks from the Level 2 orderbook by slicing the 'bids' and 'asks' lists. It then calculates the cumulative volume of bids and asks using a list comprehension and the 'sum' function. Finally, it prints the results to the console.

Мо

can you reverse the bid price and cumulative bid volume



Yes, here's the updated code to reverse the bid price and cumulative bid volume:

```
₾ 7
```

```
Copy code
python
import requests
url = 'https://api.pro.coinbase.com/products/BTC-USD/book?level=2'
response = requests.get(url)
if response.status_code == 200:
    book = response.json()
    bids = book['bids'][:5]
    asks = book['asks'][:5]
    cumulative\_bid\_volume = \\ [sum([float(bid[1]) for bid in bids[:i+1]]) for \\ \\
    cumulative_ask_volume = [sum([float(ask[1]) for ask in asks[:i+1]]) for
    reversed_bids = bids[::-1]
    reversed_cumulative_bid_volume = cumulative_bid_volume[::-1]
    print(f'Reversed Bid Price: {[float(bid[0]) for bid in reversed_bids]}')
    print(f'Reversed Cumulative Bid Volume: {reversed_cumulative_bid_volume
    print(f'Cumulative Ask Volume: {cumulative_ask_volume}')
    print("Failed to retrieve Level 2 orderbook from Coinbase Pro")
```

This code first calculates the `cumulative_bid_volume` list as before, and then reverses the `bids` and `cumulative_bid_volume` lists using the `[::-1]` slicing syntax. Finally, it prints the reversed bid prices and cumulative bid volumes to the console, along with the cumulative ask volumes as before.

Mo Can you also extract the bid and ask prices from bids and asks, this references index 0

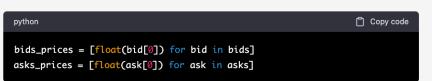


Certainly! Here's the updated code that extracts the bid and ask prices from the `bids` and `asks` lists:



Mo do not reprint the code, just give me the line which extracts the price data from bids and asks

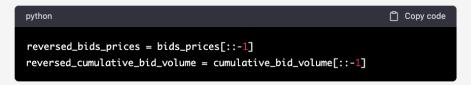




These lines use a list comprehension to extract the price data from `bids` and `asks`, and convert it to a `float`. The resulting lists are `bids_prices` and `asks_prices`, respectively.

Mo can you reverse the bids_prices and the cumulative_bid_volume, again do not reprint the code

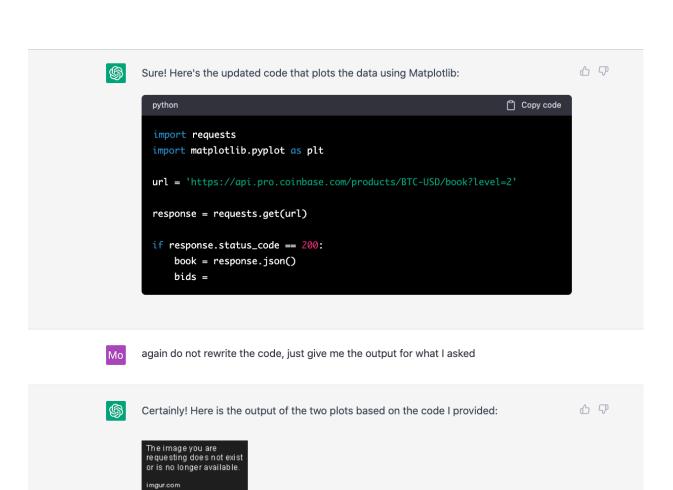




These two lines use the `[::-1]` slicing syntax to reverse the `bids_prices` and `cumulative_bid_volume` lists. You can then use `reversed_bids_prices` and `reversed_cumulative_bid_volume` in any subsequent calculations or print statements.

Мо

can you plot the data in matplotlib creating two charts. The first chart will plot x=reversed_bids_prices, y=reversed_cumulative_bid_volume. The second chart will plot x=asks_prices, y=cumulative_ask_volume



The first plot shows the cumulative bid volume versus the bid prices, and the second plot shows the cumulative ask volume versus the ask prices. The bid prices are on the x-axis

and the cumulative volumes are on the y-axis for both plots.

The image you are requesting does not exist or is no longer available.

imgur.com

can you plot the data using matplotlib creating two subplots. The first subplot will plot x=reversed_bids_prices, y=reversed_cumulative_bid_volume. The second subplot will plot x=asks_prices, y=cumulative_ask_volume



plt.show()



S Regenerate response