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Assignment: -

1. A developer is assigned a task to scrape 1 lakh website pages from a directory site, while scrapping he is facing such hcaptcha, which are placed to stop people from scrapping As a project Coordinator suggest ways to solve this problem

* Before scraping a website, check if it has a robots.txt file that provides guidelines for web crawlers. Respect these rules, and it may help you avoid CAPTCHAs. Introduce random time delays between requests to simulate more human-like behavior. There are services and libraries, such as 2Captcha, Anti-Captcha, and third-party CAPTCHA solving libraries that can automatically solve CAPTCHAs for us. Rather than attempting to scrape all 1 lakh pages at once, divide the scraping process into smaller batches to avoid triggering CAPTCHAs. In some cases, you may be able to contact the site owner or administrator to request access or permission for scraping the data you need.

2. Our client has around 10k linkedin people profiles, he wants to know the estimated income range of these profiles. Suggest ways on how to do this?

Collect as much information from the LinkedIn profiles as possible, including job titles, companies, locations, and industries. This data will be essential for making educated estimates. Job titles and industries can provide valuable insights into income ranges. You can research average salaries for specific job titles and industries in the region or country where the individuals are based. Websites like Glassdoor, Payscale, or government labor statistics databases can be helpful for this. The size and reputation of the companies where these individuals work can also impact their income. Larger and more prestigious companies often pay higher salaries. Consider the years of experience in their respective roles. More experienced professionals generally earn higher salaries.

3. We have a list of 1L company names, need to find linkedin company links of these profiles, how to go about this?

The most straightforward method is to manually search for each company on LinkedIn. You can visit the LinkedIn website, enter the company name in the search bar, and check the search results for the official company profile. There are data enrichment services like Clearbit, ZoomInfo, or Seamless.AI that offer company data, including LinkedIn company profiles. You can upload your list of company names to these services and retrieve the LinkedIn profile URLs. Use LinkedIn's advanced search features to search for companies with specific criteria, such as location and industry. You can then manually review the search results to find the official company profiles.

4. How to identify list of companies whose tech stack is built on Python. Give names of 5 companies if possible, by your suggested approach

LinkedIn can be a valuable resource for finding companies that use Python in their tech stack. Here's how you can perform a search. In the search bar at the top of the page, enter a search query like "Python developer" or "Python engineer." Browse LinkedIn job listings for positions related to Python development or engineering. Companies looking for Python developers may mention the technology stack in their job descriptions. Visit the websites of companies you are interested in and look for "Careers" or "Jobs" sections. Sometimes, companies mention the technologies they use in their job postings or career pages.

Names of 5 Companies whose tech stack is built on python

- * Google
- * Facebook
- * Spotify
- * Instagram
- * Dropbox

5. Need to find an API, through which we can send linkedin messages to other linkedin users

LinkedIn's Messaging API is designed primarily for use within the LinkedIn platform or for limited, approved use cases, such as integrations with certain recruiting and customer relationship management (CRM) tools. To send messages to other LinkedIn users, you typically need to do so through the LinkedIn website or mobile app. If you want to automate communication with LinkedIn connections for legitimate purposes, it's important to use LinkedIn's messaging features responsibly and within their terms of service.