

ASSIGNMENT

QUES1-

- 1-Use a CAPTCHA solution Service: Using a human-operated CAPTCHA solution service can be a dependable technique to get around CAPTCHAs. These services are made to deal with different CAPTCHA types.
2. Use Headless Browsers: Using headless browsers like Puppeteer or Selenium enables more human-like website interaction. They are able to fill out forms, browse between pages, and get over some CAPTCHA obstacles.
3. Rotate IP Addresses and User Agents: By employing proxies or VPNs to change IP addresses and variable user agent strings, automated queries can be hidden and the likelihood of seeing a CAPTCHA reduced.

QUES2-

- 1-Analysis of Job Titles: Job title analysis can give a decent idea of the income range. You can use pay estimation websites or industry compensation surveys to gain approximations of the salaries associated with certain job titles.
- 2-Location-Based Estimates: It's important to consider the people's whereabouts. As living expenses and pay levels vary by region, so do wages. Estimating income depending on geography can be done with the use of resources like salary calculators or public data.
- 3-Years of Experience: Looking at the years of experience listed in the profiles can reveal information about wage ranges. People with more experience typically command greater compensation. An estimate that is more precise can be produced by combining this with job titles.
- 4-Company Size and Industry: Taking into account the size and sector of the businesses where the people work might provide some insight into the range of their earnings. Higher incomes may be indicated by larger businesses or those in lucrative industries.

QUES3-

Use the LinkedIn search feature to manually look up each company's official company page. For a lengthy list, this can take some time.

If you have a developer on your team, they can use the LinkedIn Company Search API to look up firms. Recall that utilising the LinkedIn API necessitates adhering to their terms of use and rules.

Create a web scraping script that automatically searches for each company on LinkedIn and extracts the URL for the company page. Observe LinkedIn's scraping policies and terms of use.

Use company directories: Some online directories of firms, such as Crunchbase and AngelList, offer connections to the LinkedIn profiles of the companies they list. By comparing your list with those in these directories, you can linkedin profiles.

QUES4-Five Companies are-

- a-Google
- b-Facebook
- c-Instagram
- d-Spotify
- e-Dropbox

QUES5- Here is an example of sending a direct message to a person using the LinkedIn API with the /v2/messages endpoint in Python:

```
import requests
```

```
# Replace with your access token
```

```
access_token = "YOUR_ACCESS_TOKEN"
```

```
# Replace with the recipient's LinkedIn ID
```

```
recipient_id = "RECIPIENT_LINKEDIN_ID"
```

```
# Replace with your message text
```

```
message_text = "Your message text here"
```

```
headers = {  
    "Authorization": f"Bearer {access_token}",  
    "Content-Type": "application/json"  
}
```

```
data = {  
    "eventCreate": {  
        "value": {  
            "event": {
```

```

        "type": "MESSAGE",
        "message": {
            "text": message_text
        }
    },
    "recipients": {
        "values": [
            {
                "person": {
                    "entityUrn": f"urn:li:person:{recipient_id}"
                }
            }
        ]
    }
}

```

```

response = requests.post("https://api.linkedin.com/v2/messages", headers=headers,
json=data)

```

```

if response.status_code == 201:
    print("Message sent successfully")
else:
    print("Failed to send message")
    print(response.json())

```