Indeed Scrapper Documentation

Files:

Scrapper_indeed.py

This is the file which scrapes the data from Indeed web portal to search through the jobs according to the skills of the user in his/her resume and job preferences (like job location, type of job and experience level) of the user.

Variables:

- resume skills= list of skills described in resume
- all skills= list of skills present in database
- match_threshold = defined for matching skills in user resume and skills in the job description.
- role = job role preference
- Location = job location preference
- no_of_jobs_to_retrieve = number of job postings to be retrieved from indeed
- Data loaded json file for database connection.
- Final dict to store the job description links scrapped from indeed.

Code Segment:

get_job_description(resume_skills, all_skills, match_threshold, role, location, no_of_jobs_to_retrieve, data):

This function is used to scrape the indeed website, the function takes the resume_skills,all_skills, match_threshold, role, location, no_of_jobs_to_retrieve, data as parameters and returns a number of jobs openings which the user wants to see.

First all the jobs postings urls are collected and stored in a list named job urls.

```
def get_job_description(resume_skills,all_skills, match_threshold, role, location, no_of_jobs_to_retrieve, data):
 options = Options()
options.add_argument("--window-size-1920,1200")
options.add_argument('--headless')
options.add_argument('--no-sandbox')
options.add_argument('--disable-dev-shm-usage')
driver = webdriver.Chrome(options=options, executable_path=ChromeDriverManager().install())
url = "https://www.indeed.com/jobs?"
                    --Job perferences(input from user)---
data={}
data["q"] = role
data["l"] = location
data["jt"]="parttime"
data["explvl"]="senior_level"
url_parts = list(urllib.parse.urlparse(url))
query = dict(urllib.parse.parse_qsl(url_parts[4]))
 query.update(data)
url_parts[4] = urllib.parse.urlencode(query,quote_via=urllib.parse.quote_plus)
url = urllib.parse.urlunparse(url parts)
driver.get(url)
job_urls = []
 c = 0
 jobcards = driver.find_element_by_id('mosaic-provider-jobcards')
 jobs = jobcards.find_elements_by_xpath("./*")
print(len(jobs))
 for text in jobs:
     if text.get_attribute('href'): ### get all the job postings URL'sz
        job_urls.append(text.get_attribute('href'))
```

Then the job_urls list is iterated to get the job description and each job description is stored in a dictionary named final_dict with job_url as key. And this dictionary final_dict is returned.