Individual Project:

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**Career options/ Skill set recommendation for a User candidate**

Choosing right career choices and developing profession skills can be confusing at times, especially to the fresh graduates. Myraid number of Job listing portals available across internet, adds to the confusion of which careers choices to choose and which skills are required by which companies.

This project is about recommending best possible careers paths and skillsets to that one dream job or best possible jobs as per his own interest.

Data Collection:

From various online portals various data attributes will be collected using web scraping. For example by scraping the linked in user profile data. The collected data can be used as explicit inputs to analyse patterns between academic credentials, Domain expertise and the past Work experience.

Similarly creating a dataset for Job descriptions, Job titles and Company details to find Similar job postings and anticipated candidate qualifications.

Data Analysis:

Detecting the similarity between job advertisements and qualifications required is important for job recommendation systems as it allows, for example, the application of item-to-item based recommendations.

For best results the job titles can be combined with full-text job descriptions to detect important words

multiple models and weighting functions, can be tested for the best performance picking out the best skill sets and career options

For building the dataset, we assume that two jobs are similar, and the skills sets required are also similar, if two or more users have the same job title in their past work experience and have the same skill sets. However, this source of information can be noisy, due to random profiles, and scraping scripts or when job postings are bookmarked for a friend and not for the profile owner. Hence, by selecting only jobs where several users co-interacted with, we can increase the probability that such jobs are similar.