

Skill/Job Recommender

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Introduction:

When the whole world is coming back on its feet, those businesses affected by this pandemic disease slowly tries to gain back the momentum it lost. Now is the time when the companies or businesses seek to invest in human resources, which would help them to gain the momentum it lost during this period. When the governments across the world ask businesses to halt the operation in the effort of controlling the pandemic, many companies asked their employees to work remotely. In contrast, many other companies started to reduce their operational cost by terminating employees who were in permanent and contract roles. Individuals who lost their job to the consequence of shutdown are waiting for their next opportunity. Naturally, we human tries to strive through all difficulties to serve the purpose of our life. A daily job provides a sense of purpose to an individual (stillman, 2019), and he tries to get better at it, which results in leaving current employment and looking for a new one; this is a constant cycle of the hiring process. To serve the constant cycle of the hiring process in the job applicant's perspective, many job companies have come up with solutions for providing the job board. Here a seeker looks up for the job he would find relevant to him and apply for it. As there are many job boards, applicants tend to use the tool that provides better services to them, services such as writing a CV, creating a job profile, and recommending new jobs to a job seeker.

Job applicants have become more persistent and proactive in searching for new opportunities that fit their skills. However, companies that are targeting these job seekers are finding it challenging to identify the job seeker's skill and provide personalized job recommendation.

Literature Review:

A lot of research has been carried out in the field of job recommender systems. A large variety of job recommendation systems already exist that try to provide one or the other aspect of the information by applying different methods. The key problem is that most of job-hunting websites just provide recruitment information to website viewers. Students have to retrieve information among those displayed by websites to find jobs they want to apply. The whole procedure is lengthy and inefficient. In addition, many e-commerce websites, uses collaborative filtering algorithm without considering user's resume and item's properties.

Existing Solution:

This project aims to provide the better and fast job recommendation to the students with precise matching of the profile of students and company. Not only the depending on profile matching but the students can also get job vacancies as per requirement from online websites using web crawling. Student has to register for login and then fill their personal, qualification details, Skills, Project details. If entire details are filled properly then only resume of student is generated. Based on the profiles students and company matching is performed and companies are recommended to student We are also providing the android app which helps in faster notification to students about vacancies.

The Approach to the Project:

As we know the cycle of the hiring process, we have the opportunity to implement a recommender system to it. We can implement a recommender system from the enterprise perspective and the job seeker perspective. From the perspective of job seeker, we can implement a recommender system that could collect the user preference that is user skills, Location. We are concentrating on job-related to the Information and technology domain. These IT domain jobs require skills such as programming languages, database skills, Framework skills, and user preference on different platforms. The author's motivation to implement a recommender system for a job seeker came from personal strive when I was looking for the job. All the job boards would provide us with the jobs that the user searched for based on keywords that we entered in that search box. Is it not better to have a system in place recommend jobs-based user skills and preferences. In this dissertation, I will be implementing a recommender system based using filtering techniques and Natural language processing to recommend toping jobs based on the user profile

Conclusion:

In this paper, we proposed a framework for job recommendation task. This framework facilitates the understanding of job recommendation process as well as it allows the use of a variety of text processing and recommendation methods according to the preferences of the job recommender system designer. Moreover, we also contribute making publicly available a new dataset containing job seekers profiles and job vacancies. Future directions of our work will focus on performing a more exhaustive evaluation considering a greater number of methods and data as well as a comprehensive evaluation of the impact of each professional skill of a job seeker on the received job recommendation.

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