LITERATURE SURVEY

1. Enhanced Job Recommendation System

Hulbatte1, Amit Wable, Suraj Patil, Nikhil Kumar Sathe

Student, Department of Computer Engineering, Sinh gad Academy of Engineering, Pune, India

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Our technique exploits all past job transitions as well as the data associated with employees and institutions to predict an employee's next job transition. Dealing with the enormous amount of recruiting information on the Internet, a job seeker always spends hours to find useful ones. To reduce this laborious work, we design and implement a recommendation system for online job hunting. In this paper, we contrast user-based and item-based collaborative filtering algorithm to choose a better performed one. We also take background information including students' resumes and details of recruiting information into consideration, bring weights of co-apply users (the users who had applied the candidate jobs) and weights of student used liked jobs into their recommendation algorithm.To obtain a good recommendation result, many recommendation approaches are presented and applied in the JRS. The JRS has been studied from many aspects From the technical perspective, JRS has been classified into five categories. Content-based Recommendation (CBR): The principle of a content-based recommendation is to suggest items that have similar content information to the corresponding users. For example, in the recommendation that recommends jobs to a job applicant, the content is the personal information and their job desires. Collaborative Filtering Recommendation (CFR): Collaborative filtering recommendation, known as the userto-user correlation method, finds similar users who have the same taste with the target user and recommends items based on what the similar users like. Knowledge-based Recommendation (KBR): In the knowledge-based recommendation, rules and patterns obtained from the functional knowledge of how a specific item meets the requirement of a particular user are used for recommending items. Reciprocal Recommendation (ReR): Firstly, proposed by Luiz Pizzato et al. [15], reciprocal recommender is a special kind of recommender systems. Hybrid Recommendation (HyR): All recommendation approaches mentioned above have their limitations. To overcome the limitation, these approaches have been integrated to obtain better performance.On the basis of this study and various techniques to research and after implementation of algorithms, the collaborative filtering-based algorithm is considered for its better and overall factors

2. Job Recommendation System Using Profile Matching and Web- Crawling

Deepali V Musale , Mamta K Nagpure, Kaumudini S Patil, Rukhsar F SayyedStudents,
Computer Science & Engineering, K K Wagh College of Engineering, Nashik, India

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The developed system is job recommendation system for campus recruitment which helps college placement office to match company's profiles and student's profiles with higher precision and lower cost. For profile matching, two matching methods are used: semantic matching, tree-based knowledge matching and query matching. These methods are integrated according to representations of attributes of students and companies, and then the profile similarity degree is acquired. Based on profile similarity degree, preference lists of companies and students are generated the developed system consist of three modules: college campus recruitment system, keyword-based search from online recruitment sites and Android application. Students profile generated by taking information from students' registration and login portal. Company's profile will be generated by the admin from the information and requirement provided by the company to admin. After that profile matching is perform on the students and company's profiles. This profile matching includes two types of matching: semantic matching and tree-based knowledge matching. Semantic matching is performed on the attributes like technical skills, extra-curricular skills, projects, etc. while tree-based knowledge matching is performed on numerical attributes like qualification, marks, etc. Completion of this matching result in preference list generation. Then the notification is sent to students about the company's recommendation through SMS, email and notification. In second module i.e., keyword-based search module students have the provision to search for the companies from various online recruitment sites. Web crawling technique is used for searching through these sites. Students have to put the keyword e.g., C# and web crawler searches for those companies who have vacancies for C# developers through various online recruitment sites like Naukri.com .

3. Job Recommendation based on Job Profile Clustering and Job Seeker Behavior

D. Mhamdi*, R. Moulouki, M. Y. El Ghoumari, M. Azzouazi, L. Moussaid

Mathematics, Computing and Information Processing, Faculty of Sciences Ben M'Sik, Hassan II University, Casablanca 20670, Morocco

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Job recommendation system are machine learning solutions capable of suggesting pertinent jobs or candidates based on the behavior and needs of job seekers and on requirements of employers. Therefore, applicants could receive personalized online jobs and recruiters are supposed to find the most relevant candidatures with skills and qualifications that fit their needs. Natural language processing as a branch at the intersection of computer science, artificial intelligence, and linguistics could be used to extract useful insights from job offers in order to match candidates to suitable offers. In addition, it offers the capabilities of processing and analyzing large quantities of unstructured job postings and job as to provide recruiters and job applicants the ability to understand the preferences and requirements of each other. As a result, they can save time and efforts. In this paper, first, we have presented related works concern in automate recommendation and some text clustering methods, and then we have exposed the basis and rules of our proposed model. Automated Recommendation While conducting a search on the web, users are supported by automated recommendation to find and choose the right items that fit their needs, according to people they trust or sharing similar tastes. Automated recommendation is divided into content-based filtering and collaborative filtering Text clustering methods Text clustering consist on an unsupervised learning approach that aims to group a given text document set into clusters our groups in a way that documents in a same cluster are more similar between each other [4]. Many techniques are used to accomplish textual content clustering of documents Our Dataset includes job offers and job seeker interactions such as rating, likes and reviews A job posting is a document made up of structured data such as the position title and unstructured data such as the map of a location. The attributes from the data contained in these clusters are matched with behavior attributes of the job seekers and a list of n recommendations is suggested to the user. When a job offer is liked or rated by a candidate, all relevant job offers belonging to the same cluster are suggested to the same candidate.

4.Job Recommendation System Using Hybrid Filtering

Aneesh Mulay, Shriyash Sutar, Jiten Patel, Aditi Chhabria, Snehal Mumbaikar.

Department of Computer Science and Engineering, Ramrao Adik Institute of Technology, DY Patil Deemed to be university Nerul, Navi Mumbai, India

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The proposed system will help the user to overcome these difficulties by matching their work experience, skills and other details with appropriate companies suitable for respective user. The system will also help experienced users in getting their intended job on the basis of their last job profile. The job recommendation algorithm developed is tedious nor complicated and will be using user-friendly approach to implement job search. The proposed system consists of user dataset with various attributes and company dataset with company details. The profile matching of user with the respective companies can be done using various recommendation algorithms such as content-based, collaborative and hybrid filtering. Since, the content-based and collaborative approach have their own disadvantages, so here implement hybrid filtering which overcomes the disadvantages of the content-based and collaborative filtering. The user can expect a well-proof recommendation from our model. The Project will focus of developing the job recommendation system using hybrid filtering the major objective of the paper is to build a model to recommend a job using hybrid recommendation system which is the combination of content-based filtering and collaborative filtering approach. The main motto is to make easy job searchful users. This recommendation depends on the user's past experiences as well as data from users with similar approach. The Recommendation model makes it easy for the users to get recommendation of various job profiles on basis of their past projects, internships, skillset. The model will also help the experienced employees in recommending various job profiles based on their experience and skill-based performance. The main reason being the freshers job recommendation approach as some of the students may get confused over various job profiles. System not only considers the experience factor of individual but also the skills and project developed to make the job recommendation more assuring from user's point of. Hence, the user will not have any kind of uncertainty regarding the job posting recommended by our model.