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RESEARCH PAPER

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ONLINE JOB RECOMMENDER SYSTEM

Aman Jha, Lalit Purbia & Ranveer Singh Ranawat UG Student Department of Computer Science & Engineering, Geetanjali Institute of Technical Studies Udaipur, Rajasthan 313001, India

Abstract: 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 commendation algorithm. At last, the model we proposed is verified through experiments study which is using actual data. The recommended results can achieve higher score of precision and recall, and they are more relevant with users' preferences before.

Keywords: Job, Profiles , Aim, Online

INTRODUCTION

- a) Aim of project: The developed system is Job recommender or 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, three 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. Also students can perform keyword based search for job profiles from various job recruitment sites (e.g. Naukari.com, indeed.com). For obtaining data from online recruitment sites system uses web crawling. With loop matching, matching results would be further optimized and provide more effective guidance for recommendation.
- b) **Objective of project:-** when looking for offering a new job. Currently, there exist many job recommender systems to help match the right candidate with the right job. A review of the existing recommender systems, included within this ,reveals that there is an **absence of appropriate mapping support offering for job recommendation.**

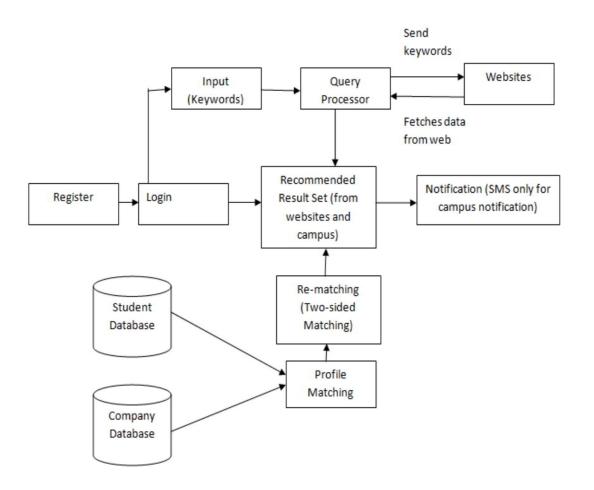
The current campus recruiting systems have often been criticized due to their relatively lower matching degree (e.g. information overload or ambiguity), long recruiting time period and higher recruiting cost. Briefly telling, 3 points are there lead to those problems.

- **First**, the requirement descriptions the Human Resource given were not clear and definite, which resulted in the large range of requirement and led to job seekers' misunderstanding.
- **Second**, students who lack required career planning or cannot understand the requirement description thoroughly may apply for the inappropriate positions.
- Third, the phenomenon that students under greater employment pressure apply for various positions massively and aimlessly would increase the cost of candidate selecting. In order to deal with those actually practical issues, we designed a campus recruitment recommendation system for college placement office by making use two types of **profile matching mechanisms and also providing the keyword based search.**

Project Overview :-We are create a software solution for providing an online platform to provide jobs to the students and other people.

Jobs like Part-time/full-time will be available on our website. People can apply according to their qualification and interests. Therefore we think it's a good way to provide the job to a needy one.

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PROBLEM STATEMENT

Finding a job in today's market is a major challenge. A common way to look for a job is to use job search websites. Rather than taking the time to search newspapers, company web sites, and other traditional job postings.

People often tend to focus their job search on a particular area and the job location can play an important part in the decision to apply for a job. Thus, location is one of the most important factors to consider when looking for a new job. As such, every job search website worth using has the ability to search for jobs based on location.

LITERATURE SURVEY

In the most popular job search websites, e.g. LinkedIn (www.linkedin.com) and Indeed (www.indeed.com), the representation for the retrieved information may not be appropriate for job seekers with respect to the job location.
 The reason is because the results returned to a job seeker about the job locations are in textual form with no provision of a map for the employers" geospatial location.

TECHNOLOGY STACK

A. Html

The HyperTextMarkup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript

B. Css

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. Wikipedia

C. Bootstrap

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

D. JavaScript

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototypebased object-orientation, and first-class functions.

E. Php

PHP is a general-purpose scripting language especially suited to web development. It was originally created by DanishCanadian programmer RasmusLerdorf in 1994. The PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor.

F. SQL database

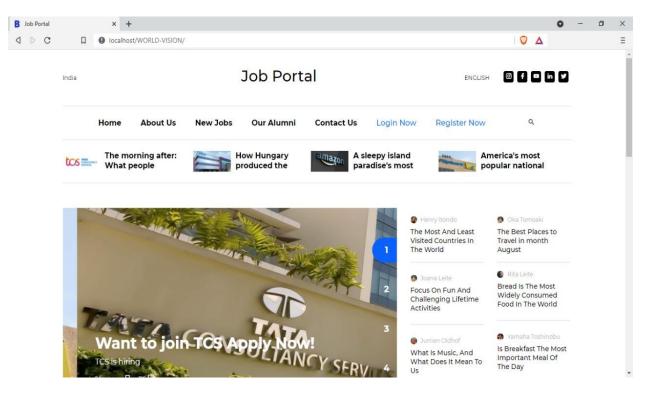
SQL is a domain-specific language used in programming and designed for managing data held in a relational database management system (RDBMS), or for stream processing in a relational data stream management system (RDSMS). It is particularly useful in handling structured data, i.e. data incorporating relations among entities and variables.

G. Jquery

jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. This enables developers to create abstractions for low-level interaction and animation, advanced effects and high-level, themeable widgets. The modular approach to the jQuery library allows the creation of powerful dynamic web pages and Web applications

HIGHLIGHTS OF THE SYSTEM

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B) MODULE LOGIN PAGE:-

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RESULT AND CONCLUSIONS

On the basis of this study and various techniques to research and after implementation of algorithms the CF based algorithm for its better performance and overall factors. Of course a lot of improvement and hybrid algorithms need to be implemented alongside CF algorithm. To further optimize the recommendation system, and integrate the system for better performance we keep in check the sparsity of user profile and use some methods of filling user's preference matrix can be utilized.

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