SKILL / JOB RECOMMENDATION APPLICATION

INTRODUCTION:

Having lots of skills but wondering which job will best suit you? Don’t need to worry! We have come up with a skill recommender solution through which the fresher or the skilled person can log in and find the jobs by using the search option or they can directly interact with the chatbot and get their dream job.

PROBLEM STATEMENT:

To develop an end-to-end web application capable of displaying the current job openings based on the user skillset. The user and their information are stored in the Database. An alert is sent when there is an opening based on the user skillset. Users will interact with the chatbot and can get the recommendations based on their skills. We can use a job search API to get the current job openings in the market which will fetch the data directly from the webpage.

LITERATURE REVIEW:

1. Anna Giabelli, Lorenzo Malandri,Fabio Mercorio, Mario Mezzanzanica, and Andrea Seveso

Skills to Job: A recommender system that encodes job offer embeddings on graph databases.Applied Soft Computing, 101:107049, 2021.

"We propose skills to graph, a job recommendation system based on a knowledge-poor and data-driven approach, which can be adapted to different countries/industries and easily updated over time. skills to graph was realized as part of the research activity of an EU project1, which aims at realizing the first EU real-time labour market monitor, by collecting and classifying Online Job Vacancies (OJVs) from all 27+1 EU."

2. Job Seekers' Acceptance of Job Recommender Systems: Results of an Empirical Study Sven Laumer University of Bamberg sven.laumer @uni-bamberg.de

" *Based on UTAUT2 and the importance of trust to explain user behaviour in relation to recommender systems, we focus on job recommender systems by developing and validating a job recommender system acceptance model. The results of our empirical, survey-based study with 440 job seekers indicate that beside performance expectancy and habit, trust is among the three most important determinants and it is especially relevant*

for women, passive job seekers and those without experience in using job recommender Systems"

3. Z. Ye and L. Su, "The use of data mining and artificial intelligence technology in art colors and graphs and images of computer vision under 6G internet of things communication,"International Journal of System Assurance Engineering andManagement, vol. 12, no.4, pp. 689–695, 2021

"Although in the literature exists a variety of techniques and strategies used as part of job recommender systems, most of them fail to recommend job vacancies that fit properly to the job seekers profiles. Thus, the contributions of this work are threefold, we:

- *i) made publicly available a new dataset formed by a set of jobseekers profiles and a set of job vacancies collected from different job search engine sites;*
- *ii) put forward the proposal of a framework for job recommendation based on professional skills of job seekers; and*
- *iii) carried out an evaluation to quantify empirically the recommendation abilities of two state-of-the-art methods, considering different configurations, within the proposed framework"*

4. Job Recommendation System Using Profile Matching And Web-Crawling Deepali V Musale 1 , Mamta K Nagpure2 , Kaumudini S Patil3 , Rukhsar F Sayyed4 Students, Computer Science & Engineering, K K Wagh College of Engineering, Nashik, India1 2 3 4

"*The author describes [3] 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. 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*."