LITERATURE SURVEY - SKILL AND JOB RECOMMENDER APPLICATION

YEAR	TITLE	AUTHOR	PROBLEM STATEMENT	TECHNIQUE	PROS	CONS
2013	A Recommender System for Job Seeking	i.Yao Lu, ii.Sandy El Helou, iii.Denis Gillet.	Various interaction features designed on the website help the users organize the resources they need as well as express their interest.	Hybrid recommendation, ranking algorithm and similarity computing	Recommender system aims at leveraging the jobs and companies that are deemed important for a target candidate and vice versa.	User studies and evaluations based on online data should have more accuracy. The usability and other characteristics of the proposed recommender system should be refined accordingly more effectively
2016	A comparison of collaborative filtering algorithms for job recommendation using apache mahout	i.Chantal Fry	A recommendation system with a well-implemented algorithm can help alleviate this problem by picking out job postings that are most relevant to the given user	Content based recommendation techniques Collaborative filtering based recommendation	Item-based collaborative filtering typically is less computationally intensive than user based collaborative filtering	Include more static ratings lists, and that they are difficult to implement due to the need for a complex understanding of knowledge engineering.
2017	Help Me Find a Job: A Graph-based Approach for Job Recommendation	i.Walid Shalaby, ii.BahaaEddin AlAila, iii.Mohammed Korayem , iv.Layla Pournajaf, Khalifeh AlJadda, v.Shannon Quinn, vi.Wlodek Zadrozny	With the excess of available online information, job seekers need browsing through thousands of jobs for finding few relevant ones can be a tedious task for many	Symmetric and Asymmetric score based. Content based similarity measure and recommendation systems.	It can be done with real datasets and find over more than 60 million actively searchable resumes, over 1 billion searchable documents per hour.	Many parameters in the systems were decided heuristically and with manual evaluation.

2018	Talent Search and Recommendation at Linkedin	i.Sachin Cem ii. Geyik Ketan Thakkar	The talent search system could be quite complex combining several structured fields	Talent Search Recommendation Candidate Retrieval and Ranking	Recruiters can search the candidates for the job openings	The recruiter or HR may not able to express their hiring needs in the form of a search query
2018	A Combined Representation Learning Approach for Better Job and Skill Recommendation	i.Vachik S. Dave ii.BaichuanZhang iii.MohammadAl Hasan iv.Khalifeh AlJadda v.Mohammed Korayem	A top-notch job recommender system not only makes it possible to advise a higher paid position that is most aligned with the skill set of the existing employment, but also makes suggestions about how to pick up a few extra talents needed to take on the new position.	i.Job-transition network ii.Job-skill network iii.Job - occurrence network	i.Pairwise Ranking Objective ii.Providing high quality job recommendation	Accurate identifying skills that bridge the skill gap
2019	Tripartite Vector Representations for Better Job Recommendation	i.Mengshu Liu ii.Jingya Wang iii.Kareem Abdelfatah iv.Mohammed Korayem	A strong representation of job posts is necessary to match the appropriate candidate with right position. These representations would suggest positions with appropriate job titles, complementary skill sets, and manageable commutes.	Graph by title, skill, and location combined	This enables us to depict job advertisements and resumes using both factors, which can then be paired with location.	Create a framework for inductive learning that can support newly minted job descriptions, skill sets, and representation vectors that only exist if they appear in the input graph.
2020	Job Recommender Systems	i.JeevanKrishna	The rise of digital communication and the spread of the internet has made an enormous impact in every industry.	Content Based Filtering, Rule-based Filtering, Hybrid filtering, Natural language processing	Collaborative filtering has an advantage over content-based filtering techniques, but due to the nature of the hiring process, a job cannot be rated by the user and will not be possible to create a similarity matrix.	Lack of good evaluation measure, scalability, privacy and security

2020	Job Recommendation Profile Clustering and Job Seeker Behavior	i.Mhamdi.D ii.Azzouazi.M	Employees and job seekers in Big Data must deal with growing data overload and time-consuming tasks.	K-clustering Profile Clustering	The websites can be used to gather job offers. Based on the features, job offers can be categorized into job clusters.	i. Increasing data saturation ii. The lengthy procedure
2022	Technical Job Recommendation System Using APIs and Web Crawling	i.Naresh Kumar, ii.Manish Gupta, iii.Deepak Sharma, iv.Isaac Ofori	In much demand right now, many candidates want to apply for jobs. They tend to miss out because there is an ocean of existing systems that list millions of jobs which are generally not relevant at all to the users.	Different types of web crawlers, Collaborative filtering,	Overcomes the limitations , increases the efficiency of ranking, Problems of cold start, sparse database, scalability, and lack of trend recommendation have been eliminated.	Recommend jobs based on the user's current profile. It cannot suggest based on the user's past searches
2022	JOB RECOMMENDATION SYSTEM BASED ON SKILL SETS	i. G.Mahalakshmi ii.A.Arun Kumar iii.B.Senthilnayaki iv.J.Duraimurugan	IT fields are the targets of many students but they don’t know which domain fits them. To avoid this situation candidates, need a Job recommendation that analyses the skills to recommend a suitable job for the candidate	Two pre-processing methods, one text mining method and one similarity functio n	Display the scores for the jobs in a sorted way. There is also a pie chart which is used to visualize the percentage of the scores for the jobs. Uses a list compare method to compare the resume and job skills to recommend the skills to be improved by the candidate	It can be improved by suggesting jobs and skills for the Non – IT jobs. In the future, some can find a better choice to find similarity than a cosine similarity. It makes the recommendation more accurate.