LITERATURE SURVEY - SKILL AND JOB RECOMMENDER APPLICATION

YEAR	TITLE	AUTHOR	PROBLEM STATEMENT	TECHNIQUE	PROS	CONS
2018	Job Recommendationbased on Job Seeker Skills	I. Jorge Valverde - Rebaza • Ricardo Puma • Paul Bustios • Nathalia C.Silva	Although in the literature exists a variety of techniquesand strategies used as part of job recommender systems, most of them fail to recommend job vacancies that fit properly to the job seekers profiles.	Text processing and recommendation methods	making publicly available a newdataset containing job seekers profilesand job vacancies	focus on performing a more exhaustive evaluation considering a greater amount of methods and data as well as comprehensive evaluation of theimpact of each professional skillof a job seeker on the received job recommendation
2018	A Combined Representation Learning Approach for Better Job and Skill Recommendation	• Vachik S. Dave • Baichu anZhang • Mohammadal Hasan • Khalifeh AlJadda • MohammedKorayem	An excellent job recommender system not only enables to recommend a higherpaying job which is maximally aligned with the skill-set of the current job, but also suggests to acquire few additional skills which are required to assume the new position	• Job-transition network • Job-skill network • Job - occurrence network	• Pairwise Ranking Objective • Providing highquality job recommendation	Skill-gap accurate identification skillmatch
2018	Talent Search and Recommendationat Linkedin	• Sachin Cem • Geyik Ketan Thakkar	The talent search system could be quite complex combining several structured fields	Talent Search Recommendation Candidate Retrieval and	Recruiters can search the candidates for the job openings	The recruiter or HR may not ableto express their hiring needs in the form of a search

				Ranking		query(ob posting)

2019	Tripartite Vector Representations for Better Job Recommendation	• Mengshu Liu • Jingya Wang • Kareem Abdelfattah • MohammedKorayem	To match the right person with the right job, a good representation of job postings is required. Such representations should ideally recommend jobs with fitting titles, aligned skill set, and reasonable commute.	Graph by the combination oftitle, skill and location	This allows us togain a representation ofjob postings/ resumes using both elements, which subsequently can be combinedwith location.	Develop an inductive learning framework to accommodate newly emerged job titles and skills and representation vectors only existif it is in the inputgraph
2019	The AI Behind LinkedIn Recruitersearch and Recommendation Systems	• QiGuo • Sachin CemGeyik	It uses existing information in your profile	• Non-linear modeling with Gradient Boosted Decision Trees • Deep learning	Easily attach your LinkedIn resume to anyjob application	• Getting spam messages • Taking too much time while using • There is no opportunity for reference
2019	A-Map Based Jobrecommender Model	• Manal Aliyhieth • Amal A. Shargabi	People often search their job openings on a particular website. Many of thesystem does not offer mapping support	Content-Based recommendation Location Based Search	This system provides the mapping supportin order to increase the job search	Sometimes complicated to understand themap that was provided
2020	Efficient and Scalable job RecommenderSystem	• Ravita Mishra • Sheetal Rathi	Incomplete Description, Information overload	• Collaborativecontent • Graph-basedfiltering	In this technique,the user can access the information he/she may havebeen interested in the past.	Lack of good evaluation measure, scalability,

					Accuracy, measure application domain efficiency.	privacy and security

2020	Job Recommendation Profile Clustering and Job Seeker Behavior	• Mhamdi.D • Azzouazi.M	In Big Data, both employees and job seekers are confronted with increasing data overload and time consuming	K-clustering Profile Clustering	Job offers can be collected from the websites. Job offers can be divided into Job clusters based on the features	• Increasing data overloaded • Time consuming process
2021	Implementation K-Means Clustering Methodin Job Recommendation System	I. Betty Dewi Puspasari • Betty Dewi Puspasari • Andy Pramono • Aang Kisnu Darmawan	Finding job vacancies is a problem for students who have just completed their studies in higher education because they still do not have work experience so they are required to look for jobs that really match their criteria	K-Means Clustering method	This application can provide solutions to companies and applicants in finding workers or jobs using a recommendation system	With the different representations of the data, the results achieved are also different.