LITERATURE SURVEY - SKILL AND JOB RECOMMENDER APPLICATION

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| **YEAR** | **TITLE** | **AUTHOR** | **PROBLEM STATEMENT** | **TECHNIQUE** | **PROS** | **CONS** |
| 2018 | Job Recommendation based on Job Seeker Skills | I. Jorge Valverde  - Rebaza   1. Ricardo Puma 2. Paul Bustios 3. Nathalia C. Silva | 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. | Text processing and recommendatio n  methods | making publicly available a new dataset containing job seekers proﬁles and job vacancies | focus on performing a more exhaustive evaluation considering a greater  amount of methods and data as well as comprehensive evaluation of the impact of each professional skill of a job seeker on the received job recommendation |
| 2018 | A Combined Representation Learning Approach  for Better Job and Skill Recommendation | 1. Vachik S. Dave 2. Baichuan Zhang 3. Mohammad Al Hasan 4. Khalifeh AlJadda 5. Mohammed Korayem | An excellent job recommender system not only enables to recommend a higher paying 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 | 1. Job-transition network 2. Job-skill network 3. Job - occurrence network | 1. Pairwise Ranking Objective 2. Providing high quality job recommendation | Skill-gap accurate identification skill match |
| 2018 | Talent Search and Recommendation at Linkedin | 1. Sachin Cem 2. Geyik Ketan Thakkar | The talent search system could be quite complex combining several structured fields | Talent Search Recommendati on  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(ob posting) |

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| 2019 | Tripartite Vector Representations for Better Job Recommendation | 1. Mengshu Liu 2. Jingya Wang 3. Kareem Abdelfatah 4. Mohammed Korayem | 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 of title, skill and location | This allows us to gain a representation of job postings/ resumes using both elements, which subsequently can be combined with location. | Develop an inductive learning framework to accommodate newly emerged job titles and skills and representation vectors only exist if it is in the input graph |
| 2019 | The AI Behind LinkedIn Recruiter search and Recommendation Systems | 1. QiGuo 2. Sachin Cem Geyik | It uses existing information in your profile | 1. Non-linear modeling with Gradient Boosted Decision Trees 2. Deep learning | Easily attach your LinkedIn resume to any job application | 1. Getting spam messages 2. Taking too much time while using 3. There is no opportunity for reference |
| 2019 | A-Map Based Job recommender Model | 1. Manal Aliyhieth 2. Amal A. Shargabi | People often search their job openings on a particular website. Many of the system does not offer mapping support | Content-Based recommendatio n Location Based Search | This system provides the mapping support in order to increase the job search | Sometimes complicated to understand the map that was provided |
| 2020 | Efficient and Scalable job Recommender System | 1. Ravita Mishra 2. Sheetal Rathi | Incomplete Description, Information overload | 1. Collaborative content 2. Graph-based filtering | In this technique, the user can access the information he/she may have been interested in the past.  Accuracy, measure application domain efficiency. | Lack of good evaluation measure, scalability, privacy and security |

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| 2020 | Job Recommendation Profile Clustering and Job Seeker Behavior | 1. Mhamdi.D 2. 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 | 1. Increasing data overloaded 2. Time consuming process |
| 2021 | Implementation K-Means  Clustering Method in Job Recommendation System | I. [Betty Dewi](https://ieeexplore.ieee.org/author/37086353179) [Puspasari](https://ieeexplore.ieee.org/author/37086353179)   1. [Betty Dewi](https://ieeexplore.ieee.org/author/37086353179) [Puspasari](https://ieeexplore.ieee.org/author/37086353179) 2. [Andy](https://ieeexplore.ieee.org/author/37086355764) [Pramono](https://ieeexplore.ieee.org/author/37086355764) 3. [Aang Kisnu](https://ieeexplore.ieee.org/author/37087115488) [Darmawan](https://ieeexplore.ieee.org/author/37087115488) | 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. |
| 2022 | Job Recommendation System Using Hybrid  Filtering | 1. Aneesh Mulay, 2. Shriyash Sutar 3. Jiten Patel 4. Aditi Chhabria, 5. Snehal Mumbaikar | Many fresher candidates face issues while job recruitment process to undergo which ﬁeld of interest. | Hybrid Filtering | The application will be user friendly and the user just has to fill in basic details such as his past years of experiences, project, internship,etc.  The rest of recommending the job to the users will be done safely by the recommendation model of this project. | content-based and collaborative approach have their own disadvantages |