LITERATURE SURVEY

Date	**21 september2022**
Team ID	**PNT2022TMID39806**
Project Name	**Skill and Job Recommender**
Maximum Marks	**4 Marks**

The various methodologies that are all used are discussed as follows:

B Barla Cambazoglu [2] (2011): Moving to a new job is not an easy decision, which may depend on many factors, such as salary, job description,and geographical location. Making successful job transitions is essential for a successful professional career.In this work, we build an automated system that can rec-ommend jobs to people based on their past job histories in order to facilitate the process of selecting a new job. We believe that such a system can successfully exploit the job tran-sitions performed by other employees.

Wenxing Hong [9] (2013):A design, develop and deploy an online JRS for choosing the suitable recommendation approaches based on users' characteristics. The first investigates four existing online JRSs from four different aspects: user profiling, recommendation strategies, recommendation output, and user feedback. To address the aforementioned challenge, we develop an online JRS, iHR, which groups users into different clusters and employs different recommendation approaches for different user clusters.Empirical results demonstrate the effectiveness of the proposed system.

Minh-Luan Tran [14] (2017): Job recommender is a system that automatically returns a ranked list of suitable, prospective jobs for employees. In order to choose a suitable algorithm to build the system, a comparison study of popular recommendation methods is conducted and reported in this paper. A subset includes 7623 jobs extracted for running experiments. There are totally 59 users who have joint in rating jobs as well as giving feedback to measure performance of different methods.

Vachik S Dave [3] (2018): Job recommendation is an important task for the modern recruitment industry. An excellent job recommender system not only enables one to recommend a higher paying job which is maximally aligned with the skill-set of the current job, but also suggests acquiring a few additional skills which are required to assume the new position. In this work, we created three types of information net- works from the historical job data: (i) job transition network, (ii) job-skill network, and (iii) skill co-occurrence network.

Punithavathi D [1] (2019): This paper analyzed the e-recruiting process and the different aspects related to applying the recommender systems in candidates and jobs matching problem.The recommender system technologies accomplished significant success in a broad range of applications and potentially a powerful searching and recommending techniques.

JEEVANKRISHNA [5] (2020): To serve the constant cycle of the hiring process from the job applicant's perspective, many job companies have come up with solutions for providing the job board. Here a seeker looks up for the job he would find relevant to him and apply for it. As there are many job boards,applicants tend to use the tool that provides better services to them, such as writing a CV, creating a job profile, and recommending new jobs to a job seeker.Job applicants have become more persistent and proactive in searching for new opportunities that fit their skills. However, companies that are targeting these job seekers are finding it challenging to identify the job seeker's skill and provide personalized job recommendations.

Lorenzo Malandri [6] (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 labor market monitor, by collecting and classifying Online Job Vacancies (OJVs) from all 27+1 EU

Nikolaos D [8] (2022): The proposed calculation FoDRA (Four Aspects Suggestion Calculation) evaluates the reasonableness of a task searcher for a task position in a more adaptable manner, utilizing an organized type of the job and the up-and-comer's profile, created from a substance examination of the unstructured type of the expected set of responsibilities and the competitor's CV.

Dinabandhu Bhandari [12] (2022): This work is an attempt to collate the data and discover the foremost relevant candidate-job association mapping concurring to the skills, interests, and preferences of a user and to provide a possible job opportunity as an efficient solution. Recommender framework aims to assist in searching for jobs that coordinate user preferences and it has a successful usage in a wide range of applications to deal with problems related to information overload efficiently. This work will analyze issues for building personalized recommender frameworks for candidates and work matching. An

attempt has been made to formulate this study of recommendation as a supervised machine learning problem.

REFERENCES

[1] Wen O Chen, pan Zhou,Shaokang Dong, shimin Gong, menglan Hu, Kehao Wang, And Wu, Tree-Based Contextual Learning for Online Job or Candidate Recommendation With Big Data Support in Professional Social Networks, IEEE/Trans. Data Mining., Nov 2018, vol. 6,no. 2, pp77725-77739.

[2] A. Calvo-Armengol. Job contact networks. Journal ofEconomic Theory, 115, 2004.

[3] [Shaha T Al-Otaibi and Mourad Ykhlef. 2012. A survey of job recommender systems. International Journal of Physical Sciences , Vol. 7, 29 (2012), 5127--5142.

[4] Deepani B. Guruge, Rajan Kadel, and Sharly J. Halder: The State of the Art in Methodolo-gies of Course Recommender Systems—A Review of Recent Research. Data 6, no. 2: 18. (2021) 17.

[5] Slamet, C., Andrian, R., Maylawati, D.S., Dharmalaksana, W., Ramdhani, M. et al. (2018) Web scraping and naïve bayes classification for job search engine in: IOP Conference Series: Materials Science and Engineering vol. 288 p. 012038 IOP Publishing.

[6] 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.

[7] N Deniz, A Noyan, and O G Ertosun. "Linking Person-job Fit to Job Stress: The Mediating Effect of Perceived Person-organization Fit". In: Procedia - Social and Behavioral Sciences 2017 (2015), pp. 369–376.

[8] Guo, Xingsheng, Jerbi, Houssem, O' Mahony, Michael P. : An Analysis Framework for Content-based Job Recommendation. 22nd International Conference on Case-Based Reasoning (ICCBR), Cork, Ireland, 29 September - 01 October 2014, 2014.

[9] S T Al-Otaibi and M. Ykhlef, "A survey of job recommender systems," International Journal of the Physical Sciences, vol. 7(29), pp. 5127-5142, July, 2012.

[10] G¨olec¸, A., and Kahya, E. 2007. A fuzzy model for competency-based employee evaluation and selection. Computers & IndustrialEngineering 52:143–161.