Ideation Phase Literature survey

Date	19 September 2022		
Team ID	PNT2022TMID16689		
Project Name	Skill / job recommender application		
Maximum Marks	4 Marks		

Paper Title	Method	Merits	Demerit s	Paper link
Skill Scanner: Connecting and Supporting Employers, Job Seekers and Educational Institutions with an AI-based Recommendation System	Combines NLP techniques to extract, vectorize, cluster and compare skills in a pipeline and outputs statistics and recommendations for all three players in form of reports	Help employers, job seekers and educational institution s adapt to the job market's needs	Requires educationa l institute data like syllabus, lesson plans, etc Returns reports which might be tedious to read	https://bit.ly/3L7 mdrX
Technical Job Recommendation System Using APIs and Web Crawling	Puppeteer and Representationa 1 State Transfer (REST) APIs for web crawling have been used. A hybrid system of Content- Based Filtering and Collaborative Filtering is implemented to recommend jobs	Allows users to study job popularity, skill demand, etc	This paper uses collaborat ive filtering which faces well-known problems of privacy breaches and cold start. Crawling process is not automated.	https://www.hindaw i.com/journals/cin /2022/7797548/
Enhanced DSSM (deep semantic structure modeling) technique for job recommendation	Deep Semantic Structure Algorithm	Word embeddings are used which don't require expensive annotations	Words with multiple meanings are conflated into a single representa tion	https://www.scienc edirect.com/scienc e/article/pii/S131 9157821001853
Recommendation of Job Offers Using Random Forests and Support Vector	Random Forest and Support Vector Machines	Automatical ly recommend job offers	SVMs work with models hard to	https://www.jorgem ar.com/papers/Reco mmendation-Job- Offers.pdf

Machines		Efficiently	interpret	
		works at	by humans	
		web scale,	Does not	
		in large	use	
		databases	textual	
		or with	descriptio	
		large	n from job	
		instances.	offers	
A Machine Learning approach for automation of Resume Recommendation system	Using Content- based Recommendation, using cosine similarity and by using k-NN to identify the CVs that are nearest to the provided job description	Effectively captures the resume insights and their semantics	Accuracy is only 78%	https://www.scienc edirect.com/scienc e/article/pii/S187 705092030750X