Ideation Phase
Literature Survey

Date	19 September 2022
Team ID	PNT2022TMID30155
Project Name	Skill and Job Recommender Application
Maximum Marks	

1.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.

The fast growth of the Internet caused a matching growth of the amount of available online information that increased the need to expand the ability of users to manage all this information. This encourages a substantial interest in specific research fields and technologies that could benefit the managing of this information overload. The most important fields are Information retrieval and Information filtering. Information retrieval deals with automatically matching user's information and Information filtering aims to assist users eliminating unwanted information (Hanani et al., 2001). The latest technology designed to fight information overload is the recommender systems that originated from cognitive science, approximation theory, information retrieval, forecasting theories and also related to management science and to consumer choice modelling in marketing (Adomavicius and Tuzhilin, 2005). The recommender systems used to determine the interested items for a specific user by employing a variety of information resources that is related to users and items.

2.Technical Job Recommendation System Using APIs and Web Crawling

With an increasing number of cash-rich, stable, and promising technical companies/startups on the web which are in much demand right now, many candidates want to apply and work for these companies. They tend to miss out on these postings because there is an ocean of existing systems that list millions of jobs which are generally not relevant at all to the users. There is an abundance of choices and not much streamlining. On the basis of the actual skills or interests of an individual, job seekers often find themselves unable to

find the appropriate employment for themselves. This system, therefore, approaches the idea from a data point of view, emphasizing more on the quality of the data than the quantity.

3.Skill Scanner: Connecting and Supporting Employers, Job Seekers and Educational Institutions with an AI-based Recommendation System by Koen Bothmer and Tim Schlippe

Access to education is one of people's most important assets and ensuring inclusive and equitable quality education is goal 4 of United Nations' Sustainable Development Goals. This goal should not only refer to general education, but also to specific education in the professional environment. If people have the right education for the professional environment, they have a better chance to get jobs that allow them to have a good life. Unfortunately, there are often still gaps between the skills that are needed in the job market, the skills that job seekers have and the skills that are taught in educational institutions like schools, universities, online platforms, massive open online courses (MOOCs), etc.

4.A Life-long Learning Recommender System to Promote Employability

Nowadays, organizations are facing new necessities when recruiting new employees. Advances in technology, availability of data, new society' challenges and new types of jobs require new skills that current staff or available people for hiring may not have. Such quick evolution has resulted in a very dynamic labor market. In that iJET – Vol. 12, No. 6, 2017 77 Paper—A Life-long Learning Recommender System to Promote Employability sense, people may feel overwhelmed by the speed the labor market evolves and how quickly their knowledge and skills became obsolete. Therefore, it is relevant to provide analytical tools that support people to be aware of how well positioned they are for succeeding in their professional and job expectations, of what knowledge and skills they should get to be able to achieve such expectations or of how to maximize their employability.