**LITERATURE SURVEY**

**DATE : 8 October 2022**

**TEAM ID : PNT2022TMID06119**

**PROJECT NAME : SKILL AND JOB RECOMMENDER**

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| **PAPER NAME** | **YEAR** | **AUTHOR** | **METHODOLOGY** | **MERIT** | **DEMERIT** |
| Job Recommendation through Progression of Job Selection | 2019 | * Aakash Roy * Amber Nigam * HarsimranWalia * Hartaran Singh | This paper introduces a novel laptop gaining knowledge of mannequin that accommodates the dynamics of a fairly volatile job market by using candidates' job preferences over time.Additionally, this method includes a range of smaller hints that aggravate the troubles with producing serendipitous recommendations,  addressing the cold-start problem for new jobs and candidates. The quality effects were acquired using Bidirectional Long Short-Term Memory Networks (Bi-LSTM) with Attention for recommending jobs via machine learning, which types a extensive portion of our recommendation. | It motivated us to dive deeper into the job application process of the candidates and take inspiration from real life scenarios and attempt to make our job recommendation serendipitous for the candidate. | Recommendation using similar candidates and jobs forms part of non-machine learning based recommendations is one of the limitation. |
| CaPaR: A Career Path Recommendation Framework | 2017 | * MagdaliniEirinaki * Bharat Patel * VarunKakuste | This gadget scans the user's profile and resume, identifies the candidate's key skills, and generates customized job recommendations using textual content mining and collaborative filtering techniques. Furthermore, the device suggests to student's extra competencies needed for related job openings, as nicely as learning assets for each skill. | It provides a set of jobs that are ranked more similar to the user’s profile. Each time the user will receive updated recommendation. | It failed to focus on incorporating details of courses taken by the students during their studies, and also alumni data (on skills and acquired job experience) to enhance the input dataset and make the experience even more personalized. |
| Collaborative job prediction based on Naïve Bayes Classifier using python platform | 2016 | * SavitaChoudharySiddanthKoul * Shridhar Mishra * Anunay Thakur * Rishabh Jain | The reason of this paper is to put in force a advice device for job portals based on collaborative filtering techniques. The machine is designed to recommend jobs to the consumer based on his profile and by means of calculating a similarity index between two skill units the use of Euclidean distance and then rating them ,the use of the naive Bayes algorithm. Python was once used to implement the suggestion system. | The designed system is able to successfully recommend jobs based on a user’s current skill set by combining it with the similar skills in the global data set that we have acquired. | Collecting global data is a little bit difficult. |
| Generating Unified Candidate Skill Graph for Career Path Recommendation | 2018 | * AkshayGugnani * KarthikeyanPonnalagu * Vinay Kumar Reddy Kasireddy | This paper proposes a machine that leverages the concept of competencies to construct talent graphs that can shape the foundation for profession path recommendations. Skills are perceived to be greater amenable for profession path standardizations across the organizations. The proposed device ingests a user's profile (in a pdf, phrase format or different public and shared data sources) and leverages an Open IE pipeline to extract education and experiences. Subsequently, the extracted entities are mapped as precise capabilities that are expressed in the form of a novel unified skill graph. Such ability graphs which capture both spatial and temporal relationships are believed to aid in producing specific profession path recommendations. | Application of skill graph for professional growth inference could help in comparing two organizations in terms of professional growth of their employees. | In order to evaluate the performance of Skill Extraction module, we need to extract skills from 100 documents.  This is quite complex. |