IDEATION PHASE

LITERATURE SURVEY

DATE	14 OCTOBER 2022
TEAM ID	PNT2022TMID02811
PROJECT NAME	PROJECT – SKILL/JOB RECOMMENDER APPLICATION
MAXIMUM MARKS	2 MARKS

SKILL AND JOB RECOMENDER APPLICATION LITERATURE SURVEY

SUMMARY OF LITERATURE SURVEY:

A review has been made on different approaches in various research articles. A detailed study is made by referring various papers of different fields, such as load demand forecasting, data mining techniques, soft computing approaches and different application that uses time series process. The methods involved in each article is discussed briefly, it also includes merits and demerits of each work. Finally, a summary is made based on the survey.

A CAREER PATH RECOMMENDATION FRAMEWORK:

In today's world, recommendation systems are used to solve the problem of information overload in many areas allowing users to focus on important information based on their interests. One of the areas where such systems can play a major role is in helping students achieve their career goals by generating personalized job and skill recommendations.

At present, there are many job posting websites providing a huge amount of information and students need to spend hours to find jobs that match their interests. At the same time, existing job recommendation systems only consider the user's field of interest, but do not take into consideration the user's profile and skills, which can generate more relevant career recommendations for users.

This article was published in March 2017 and authors of this article are: **Bharat Patel, Varun Kakuste, Magdalini Eirinaki**.

JOB RECOMMENDATION BASED ON JOB SEEKER SKILLS: AN EMPIRICAL STUDY

In the last years, job recommender systems have become popular since they successfully reduce information overload by generating personalized job suggestions.

The contributions of this work are two-fold:

- It made publicly available a new dataset formed by a set of job seekers profiles and a set of job vacancies collected from different job search engine sites.
- It forwards the proposal of a framework for job recommendation based on professional skills of job seekers.

This article was published in March 2018 and authors of this article are: **Jorge Valverde-Rebaza Ricardo Puma Paul Bustios Nathalia C. Silva**.

RECOMMENDER SYSTEMS: A SURVEY

From the last two decades internet-based recruiting platforms have become a primary channel in most companies for recruiting talents. Such portals decrease the advertisement cost, but they suffer from information overload problem. Job portals using traditional information retrieval techniques such as Boolean search methods are typically using simple word matching algorithms. The main issue of these portals is their inability to understand the complexity of matching between candidates' desires and organizations' requirements. Hence, a vast amount of deserving candidates misses the opportunity to get an appropriate job.

The recent recommender systems have achieved success in e- commerce applications. In order to improve the functionality of e-recruitment process, many recommendation systems approaches have been proposed.

This article was published in March 2019 and authors of this article are: **Juhi Dhameliya, Nikita Desai**.

JOB RECOMMENDATION SYSTEM USING MACHINE LEARNING AND NATURAL LANGUAGE PROCESSING:

This domain is the Hiring process, where a job seeker applies to a job by creating a profile on a job portal by providing all his/her work preferences. These work preferences of each user can be collected from each user and provide job recommendations based on their preference.

Data acquired for our study has no previous interaction between the user data and Job listing data. With such a dataset, we have addressed the issue of cold start from both User and Job perspective.

This article was published in May 2020 and authors of this article are: **Harsh Jain**.

JOB RECOMMENDATION SYSTEM IN PHP:

This research aims to develop a job web portal for the students in the Faculty of Computer Science and Information Technology (FCSIT), University of Malaya (UM). The main aims of this portal are to connect to the industries and acts as an online recruitment to support the students to find the right IT job after graduation.

Furthermore, this system enhances the understanding concept and importance of the job portal for students in the universities. A survey was conducted to identify the students' problems with the existing portal of the faculty and to gather their requirements which can be incorporated in to the portal to be developed.

This article was published in Jan 2021 and authors of this article are: **Gupta A, Rothkrantz L**.