

PROBLEM STATEMENT

Since job recommender systems generate personalized job suggestions, they have become popular in recent years. Despite the existence of a variety of techniques and strategies in the literature, most job recommender systems fail to provide job vacancies that match the profiles of job seekers. Therefore, this work contributes threefold to the community by making public a new set of profiles of job seekers and a set of vacancies collected from a variety of job search engines. We proposed a framework for job recommendation based on the professional skills of job seekers, and we assessed empirically two state-of-the-art methods within the framework to quantify their recommendation abilities. To facilitate research and application design on this significant topic, this paper provides a general overview of job recommendation tasks, Job matching, job seeking, job search, job recommender systems. An approach to job recommendation has been proposed. In addition to facilitating the understanding of the job recommendation process, this framework allows the designer of a job recommender system to use a variety of text processing and recommendation methods. We also provide a dataset containing job seekers' profiles and job openings that is publicly available. In the future, our work will focus on evaluating a vast amount of data and methods. In addition, we will estimate the impact of each professional skill of a job seeker on the job recommendation received.