Literature Survey

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Topic : Skill or Job Recommender

Technology : Cloud Application and Development

Literature Survey:

S.No	Title	Author	Abstract	Refernce
1.	A survey of job recommender systems	Shaha Alotaibi	The Internet-based recruiting platforms become a primary recruitment channel in most companies. While such platforms decrease the recruitment time and advertisement cost, they suffer from an inappropriateness of traditional information retrieval techniques like the Boolean search methods. Consequently, a vast amount of candidates missed the opportunity of recruiting. The recommender system technology aims to help users in finding items that match their personnel interests; it has a successful usage in e-commerce applications to deal	ShaniG, GunawardanaA (2011). Evaluating Recommendation Systems. Springer pp. 257-298.

			with problems related to information overload efficiently. In order to improve the e-recruiting functionality, many recommender system approaches have been proposed. This article will present a survey of e-recruiting process and existing recommendation approaches for building personalized recommender systems for candidates/job matching.	
2.	Job Recommendation System Using Machine Learning And Natural Language Processing	Jeevan krishnan	The rise of digital communication and the spread of the internet has made an enormous impact in every industry. One such 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. There had been work done in this field, where researchers have implemented Recsys using the Hybrid filtering method as user data had previous interaction with item (Rafter et al., 2000).In this dissertation, we have approached the problem with the	Al-Otaibi, S.T. and Ykhlef, M. (2012) Job recommendation systems for enhancing erecruitment process in: Proceedings of the International Conference on Information and Knowledge Engineering (IKE) p. 1 The Steering Committee of The World Congress in Computer Science, Computer . . .

			three-tier approach design. 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. Also, recommend the top-n job to the user by analyzing and measuring similarity between the user preference and explicit features of job listing using Content-based filtering, which is devised in support of natural language processing and cosine similarity. The Recommender System is then evaluated using precision, recall, and F1 score(Barrón-Cedeno et al., 2009). The top-n recommendation made to the user is presented in the third tier of the design, a web app deployed in the local server. The presentation layer web-app is developed using Plotly's dash web framework. Keywords: Recommender system, Job domain, Content-based filtering,Natural language processing, cosine similarity	

4.	Job Recommendation based on Job Profile Clustering and Job Seeker Behavior	D. Mhamdi*, R. Moulouki, M. Y. El Ghoumari, M. Azzouazi, L. Moussaid Mathematics, Computing and Information Processing, Faculty of Sciences Ben M'Sik, Hassan II University, Casablanca 20670, Mo	This article presents a recommender system that aims to help job seekers to find suitable jobs. First, job offers are collected from job search websites then they are prepared to extract meaningful attributes such as job titles and technical skills. Job offers with common features are grouped into clusters. As job seeker like one job belonging to a cluster, he will probably find other jobs in that cluster that he will like as well. A list of top n recommendations is suggested after matching data from job clusters and job seeker behavior, which consists on user interactions such as applications, likes and rating.	Rehab Duwairi, Mohammed Abu-Rahmeh A novel approach for initializing the spherical k-means clustering algorithm Simulation Modelling Practice and Theory, 54 (2015) (2015), pp. 49-63