Skill And Job Recommender system

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Abstract

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 hadbeenworkdoneinthisfield, where researchers have implemented Recsysusing the Hybrid filtering method as user data had previous interaction with item (Rafter etal.,2000).Inthisdissertation,wehaveapproachedtheproblemwiththethree-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 Systemisthenevaluatedusingprecision, recall, and F1 score (Barrón-Cedenoetal., 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 languageprocessing, cosinesimilarity

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