

An Ontology-Based Approach for an Improved Job Recommendation System

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Abstract. Finding the perfect job is the main purpose of higher education for most young individuals. That nowadays there are lots of job portals in Sri Lanka where job seekers discover work opportunities and vacancies according to their preferred job titles. But for that, the seeker has to have a clear idea about at least several job titles or roles in a company. Not every person who uses these portals knows jobs and job positions. Most of them might know only a few job positions and most of them might have never heard of other roles. Many researchers have already proposed semantic matching approaches by developing ontologies as a reference to mediate matching accuracy approximately, but these approaches don't prove how closely matched applicants are related to their core skills. This research paper proposes a technique that uses an ontology-based approach for improved keyword searching by influencing the comparability between concepts in the judgment, which represents the core skills and qualifications needed for a job to decide how closely matched an applicant during the job searching process.

Keywords: *Job Portal, Job Search Engine, Ontology, Online Jobs, Job Recommendation*