INFORMATICS INSTITUTE OF TECHNOLOGY

In Collaboration with

UNIVERSITY OF WESTMINSTER, UK

Smart Recruit System

Job Recommendation System Using Ontology and Natural Language Processing

A dissertation by

Mr. Selvaraj Gopinath

(W1583065)

Supervised by

Chathura Sooriyaarachchi

Submitted in partial fulfillment of the requirements for the

BEng (Hons) in Computer Science

Department of Computing

2019/05/06

ABSTRACT

Online recruiting systems were used by job applicants to search for jobs as well as recruiters to recruit employees as a popular tool. But the methodologies used by these systems to retrieve information have struggled to keep up with the changes in machine intelligence. Traditional hiring systems were controlled in terms of performance and accuracy because they are based entirely on searching for key terms. Recommended systems have developed as a solution in existing systems to resolve these restrictions. Depending on the skills and priorities of the candidate, job opportunities or job openings are suggested to the candidate in recommending systems. Analyzing and implementing new online recruiting systems will be done by adding and altering existing features. SmartRecruit is a perfect solution for applicants and businesses alike. Applicants will be recommended most suitable job openings and appropriate nominee profiles will be recommended to recruiters as a benefit to businesses.

SmartRecruit is a web application running on the apache tomcat server, using the java mvc framework to manage business rules and manage server client requests. The database interface is constructed to access the MYSQL database using java JDBC technologies.

Keywords - Job Recommending System