

**RECRUITMASTER – CANDIDATE RANKING SYSTEM  
WITH ASPECT BASED CV EVALUATION**

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# Abstract

The concept of recommendation systems is not alien to us since those systems have been part of many industries that meet during our day to day life. There are plenty of recommendation systems out there in various industries such as films, food, books, fashion etc. However, this concept is never before seen being applied properly in the field of Human Resource in recruitment process. Recommendation systems can be useful to shortlist CVs and filter out the best candidates out of hundreds of applicants for a particular job. This CV shortlisting process is currently done manually, costing HR professionals hundreds of hours each year. Not only that, the human errors made during the manual process are inevitable and hinders the ideal recruitment process. A proper candidate CV shortlisting system could overcome these obstacles and create a hassle free recruitment process saving valuable time and effort of HR professionals.

Considering the above mentioned facts, the aim of this research is to come up with a solution which can automate every possible area of the recruitment process. “*RecruitMaster*” is the proposed solution of this research and it’s a web application which has the capability of performing as a company job portal, candidate ranking and CV evaluating system which use natural language processing and aspect based CV evaluation. The system will provide a ranked list of applicants along with a graphical overview report for each applicant to the HR administration.

The ultimate goal of the proposed system is to reduce the workload of HR professionals and save time spending on shortlisting processes. According to the background check and literature survey conducted about this research area, there are no other existing systems which provide as many features as this system.

**Keywords:** EasyRecruiter, Natural Language Processing, aspect based CV evaluation, Graphical overview