# INTERNET TECHNOLOGY AND APPLICATIONS PROJECT REPORT

## PERSONALITY PREDICTION SYSTEM THROUGH CV ANALYSIS



## **GROUP MEMBERS:**

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#### INTRODUCTION

The system enables an effective and efficient way to short list submitted candidate CVs by a large number of applicants providing a consistent and fair CV ranking policy, which can be legally justified. The system will rank the experience and key skills required for a particular job position. This system will help the human resource (HR) department to easily shortlist the right candidate for the particular job profile based on the CV ranking policy and ensure expert workforce for the organization. Here, the candidate will register him/herself with all the required details and will upload his/her own CV into the system, which will be further used by the system to shortlist the CV. Candidate can also give an online test, which will be conducted on personality questions as well as aptitude questions. After completing the online test, candidates can view their own test results.

## LITERATURE SURVEY

The prior research done on the related fields include:

- A novel approach to evaluate and rank candidates in a recruitment process by estimating emotional intelligence through social media data (2017): Implemented as a web application, the system lets employers post new job openings. Interested candidates could apply by filling an online resume. Machine learning techniques such as supervised classification is used to model the personality predictor. Social media evidently offers speed, efficiency and the ability to target and attract specific, particularly pertinent job seekers from the vast pool of candidates.
- Neural network approach to personality prediction based on big-five model(2014): The social media data provides unprecedented information about human behavior and social interactions. It makes it possible to understand who the users are, what their interests are and what they need. In the Big Five Model, personality is partitioned into five categories (or dimensions) namely Openness, Conscientiousness, Extroversion, Agreeableness and Neuroticism.
- Application of Machine Learning Algorithms to Online Recruitment System (2012):
   The proposed system extracts a set of objective criteria from the applicants' LinkedIn profile, and infers their personality characteristics using linguistic analysis on their blog posts.

# **DESIGN**

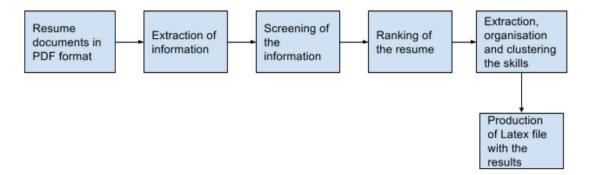
#### **Proposed system:**

The proposed system will extract information from the resumes. The extracted information is used to analyse the candidates according to the skill sets and based on the job description of the company. The system analyzes, scores and ranks a collection of PDF resumes using machine learning.

#### **Distinctiveness from existing systems:**

Given a set of resumes, the recruiters will be able to judge about the best suited job category for a provided resume with the assistance of this system.

#### **BLOCK DIAGRAM**



# **IMPLEMENTATION DETAILS**

Using neural fuzzy logic. The system will assign weightage for each requirement (research done, projects done, internships done, job experience etc.). System will assign weightage for each requirement. Resume will be shortlisted based on overall weightage.

# **WORK DONE SO FAR**

- 1. Installed the prerequisites: text maker, Pdfwrapper.
- 2. Created a dataset of resumes.
- 3. Created a resume parser, to analyse the given resume(from the dataset)
- 4. The parser returns the resume which matches the requirements list the most.

# **WORK YET TO BE DONE**

- 1. **Front end:** Django- The front end forms a framework for users to enter their details, and the back end parser gives a rank of the resumes.
- 2. Further improvisation on the back end