**Design and Development of an approach for Human Behavior Analysis**

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***Abstract –*** *Social Media is used by large number of people to share opinions and express their views which directly or indirectly reflects the character sketch of the person. Nowadays companies while recruiting and hiring process check the social media profile, review an applicant’s own public postings and accounts, providing a better picture of him or her as a potential employee. The number of quality and effective employees in a company plays a major role in the future growth and success of the company. Employee selection process is a tough and important procedure. It takes patience, proper screening and careful analysis. Not only will time be lost by not making correct decisions when it comes to the hiring process but a lot of financial resources will have been wasted trying to find someone who fits the bill.*

*In our project we are developing a mobile application that would take the social media feed of a person as input and by analysing it, creates a character sketch of that person. It would involve the* *candidates go through a systematic set of questions and even skills tests to determine if candidates are able to fulfill the job needs. This would help to establish confidence in knowing that you have logically gone through a* *good recruiting* *process and have selected people based on defined metrics rather than gut feelings.*

***Keywords-******Employee, Interview procedure, selection, sentimental analysis, twitter,******information, data cleaning, questionnaires, Application, Mobile-based***

**INTRODUCTION**

**T**he number of quality and effective employees in a company plays a major role in the future growth and success of the company. Employees not only deal with

customers on a regular basis but also are the essential cogs in the machine when it comes to delivering goods and providing any relevant services. **Each person being hired brings something unique to the business and it is important to seek out those with the best qualities.**  Not only are the right employees key to keeping clients happy and establishing a lasting reputation, they are also central to a company’s internal business culture. Employee selection process is the backbone of finding appropriate hires and getting the company off the ground. Hiring is a tough procedure. It takes patience, proper screening and careful analysis. Not only will time be lost by not making correct decisions when it comes to the hiring process but a lot of financial resources will have been wasted trying to find someone who fits the bill.

One of the easiest ways to use social media is for recruiting to review an applicant’s own public postings and accounts, providing a better picture of him or her as a potential employee. Go through a systematic set of questions and even skills tests to determine if candidates are able to fulfill the job needs. This helps establish confidence in knowing that you have logically gone through a recruiting process and choose people based on defined metrics rather than gut feelings. When you do this, you increase your chances of having someone succeed in the job.

**METHODOLOGY**

The whole mobile application is divided into the four modules.

Module 1: GUI Development

In GUI there will be various input fields which will collect information like user-id, username and search domain of a candidate on which sentimental analysis has to be perform.

Module 2: Data Collection and Cleaning

Data of a candidate will be collected from social media sites using their API. After the collection of data, the collected data will be processed for cleaning purpose to remove unwanted special characters, links and tags. Then sentimental analysis will be performed on clean data.

Module 3: Questionnaire Generation

After analyzing the sentiments of a candidate a questionnaire will be generated for a candidate. The questionnaire will be designed in such a manner that it will help in figuring out whether a candidate is faked or doubled faced on social media.

Module 4: Analysis

In this module the detailed sentimental analysis of that candidate will be given with the help of graphical charts and recommendation whether to opt for a candidate or not.

**DESIGN**

The mobile application takes the username of the candidate by the registered user, using which the application retrieves posts and statuses from social media platform i.e. Twitter. The flow and working of the system is as follows:



Fig. System Architecture of Sentimental Analyzer

**A. Flow of the system**

The application starts from the new user registering on the application by entering the details. After user verification and authentication, he/she can login into the application where he can to feed the username of candidate then the application will collection data (post and statuses) of the candidate and does data cleaning and data extraction. On the acquired data analysis is performed and intermediate results will be displayed will would depict the character sketch of the candidate. Now the user can select whether he/she wants to generate questionnaires based on the intermediate results. If the user selects to generate questionnaire, then on the basis of the answers given by the candidate conclusion is generated depicting whether the person is fake or not.

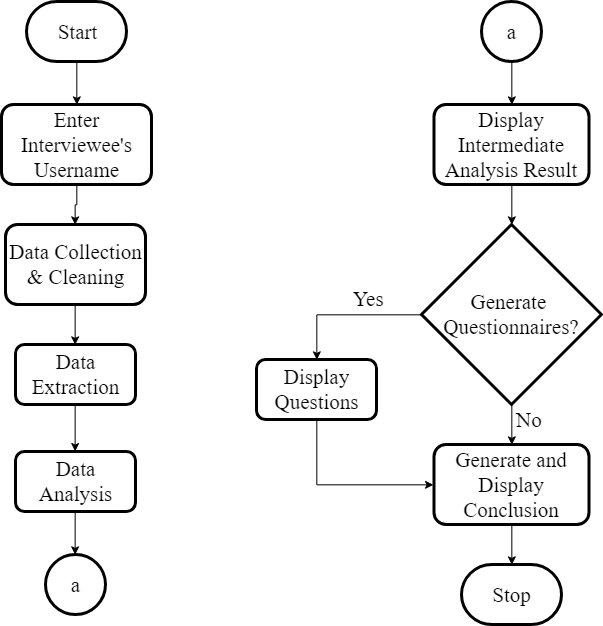


Fig. Flow of Sentimental Analyzer

**CONCLUSION**

Design and Development of an Approach for Human Behavior Analysis would result in a mobile application that will use social media for human behavior analysis. It would assist in making the decisions and assessment of applicant during the hiring process for executive, managerial and other upper level positions which solves the societal problem of identifying applicants who fake themselves on an interview. It will analyze the applicant’s social media profile and based on the calculation it will generate a questionnaire for the proper assessment of the candidate.

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