Personality Prediction By Discrete Methodology

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Abstract : *There is growing interest in personality traits by organization to better-Understand the diversity of responses of candidates to similar circumstances. Personality traits are the relatively enduring patterns of thoughts, feelings and behavior that reflect the tendency to respond in certain ways under certain circumstances.*
System will be constructed by first constructing a dataset consisting of photographs, quality factors, personality measurement and intelligence measurement for building an end to end network for personality prediction where self-reported personality traits can be predicted reliably from an image. Experimental results shows the personality traits of the candidate or a person i.e. imagination ability, creativity, leadership, capacity of mutual respect and many other traits.

Keywords: *personality,personality traits,discrete*

I. Introduction

Personality is a set of individual differences that are affected by the development of an individual values, attitude, personal memories, social relationship, habit and skills [7].The term personality trait refers to enduring personal characteristic that are revealed in a particular pattern of behavior in a variety of situation. Incorporating user's personality traits has shown to be instrumental in many personalized retrieval and recommended system [5]. Evaluating individual's personality trait and intelligence from their faces play a crucial role in interpersonal relationship but through this we cannot depict the exact personality trait .So to assess the possible personality traits images can play a vital role. In this proposed novel method that integrates images, inkblot and so on built an end to end network for prediction of personality. Result shows various personality traits of humans such as social interaction, capacity of mutual respect, imagination, creativity, and many other traits [2].

II. Ease To Use

The cost of making bad hiring decisions and the difficulties of getting meaningful information from reference checks of prospective employees have led many employers to use personality tests as part of their hiring process.if some job is related to social interaction and if that candidate has performed very well in interview and other selection criteria but if its sociometric ratio is less then respective candidate is not suitable for this job such ratio can be obtained by certain personality test such as sociometric test hence such test are used to get deserving candidate from bulk of participants.

A. Methodology

The main goals of the proposed system is to distinguish internal properties of the person from overt behaviors, and to show the results using chart or in percentage [5]. Personality traits are consistent patterns of thoughts, feelings, or actions that distinguish people from one another[7]. There are various methodology that can be used, to make this system[4]. They are as follows:

Pictorial techniques: There are several pictorial techniques. The important ones are as follows:

(a)Thematic apperception test (T.A.T.):The TAT consists of a set of pictures (some of the pictures deal with the ordinary day-to-day events while others may be ambiguous pictures of unusual situations) that are shown to respondents who are asked to describe what they think the pictures represent. The replies of respondents constitute the basis for the investigator to draw inferences about their personality structure, attitudes, etc.

(b) Rosenzweig test: This test uses a cartoon format wherein we have a series of cartoons with words inserted in 'balloons' above. The respondent is asked to put his own words in an empty balloon space provided for the purpose in the picture. From what the respondents write in this fashion, the study of their attitudes can be made.

(c) Rorschach test: This test consists of ten cards having prints of inkblots. The design happens to be symmetrical but meaningless. The respondents are asked to describe what they perceive in such symmetrical

inkblots and the responses are interpreted on the basis of some pre-determined psychological framework. This test is frequently used but the problem of validity still remains a major problem of this test.

 (d) Quizzes, tests and examinations: This is also a technique of extracting information regarding specific ability of candidates indirectly. In this procedure both long and short questions are framed to test through them the memorizing and analytical ability of candidates.

(e) Sociometry: Sociometry is a technique for describing the social relationships among individuals in a group. In an indirect way, sociometry attempts to describe attractions or repulsions between individuals by asking them to indicate whom they would choose or reject in various situations.

B. Problem statement

There are many other techniques like personality prediction based on signature, handwriting, Facebook post, Twitter post etc. are available to predict the personality of a person. But these techniques may not give the proper result because a person can make a fake signature, handwriting and even the post on social site can also be a fake. So these techniques can't judge their overall personalities.

In order to predict the overall personality of a person keeping in mind the various personality factors, it is necessary to create personality prediction system that will give the overall as well as accurate Personality traits, so we are developing the system using pictorial methods which will depict the entire personality traits of an individual.

C. Related work

Personality Prediction System[12][13][14] is more effective way to short list submitted candidate CVs from a large number of applicants providing a consistent and fair CV ranking policy, which can be legally justified. System will rank the experience and key skills required for particular job position.

Neuro Fuzzy Logic Explanation:
 We use neural network
 System will assign weight age for each requirement
 Resume will be shortlisted based on overall weight age
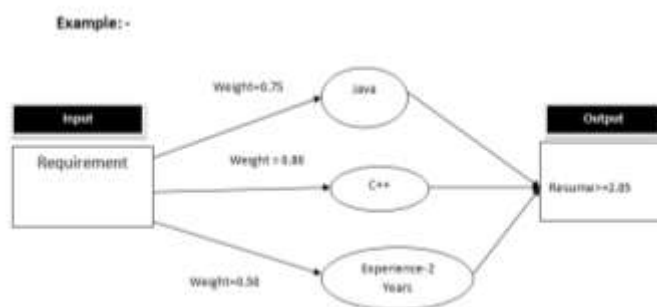
In [15] a method to extract the user sessions from the created session files. And depending on the sessions created the user behavior is predicted by displaying them most visited page or the product. Usability is defined as the satisfaction, efficiency and effectiveness with which specific users can complete specific tasks in a particular environment. This process includes 3 stages, namely Data cleaning, User identification, and Session identification. In this paper, we are implementing these three phases. Depending upon the frequency of users visiting each page mining is performed. By finding the session of the user we can analyze the user behavior by the time spend on a particular page.

Data Mining For Automated Personality Classification :-

It has access to large amounts of person behavioral data. This data can help us classify persons using Automated personality classification (APC). In this project, they proposed an advanced APC – automated personality classification system. Here use of learning algorithms along with advanced data mining to mine user characteristics data and learn from thepatterns has done. It stores its own user characteristics patterns in a database and the system now predicts new user personality based on personality data stored by classification of previous user data. This system is useful to social networks as well as various ad selling online networks to classify user personality and sell more relevant ads. In [16] a set of experiments to examine whether automatically trained models can be used to recognize the personality of unseen subjects. Our approach can be summarized in five steps:

◻ Store Data related to personality in database.
◻ Collect associated personality characteristics for each participant.
◻ Extract relevant features from the texts.
◻ Display features relevant to his personality traits.
⠀⠀⠀◻ Personality and User Behavior.
The following sections describe each of these steps in more detail.

⠀⠀⠀Store Data related to personality traits in database: The personality characteristics are stored in database. Later, when user enters his personality characteristics his personality is examined in large pre-existing databases and system will detect the personality of the user.

⠀⠀⠀Collect associated personality characteristics for each participant: Each user will enter his personality characteristics than system will detect the personality of the user, based on the previous data stored in database.

⠀⠀⠀Extract relevant features from the texts: System will extract relevant features from the text entered by the user. System will compare this text with data stored in database. After comparison, system will specify the personality of the user.

⠀⠀⠀Display features relevant to his personality traits: System will examine the personality of the user based on the personality traits mentioned by the user. And will provide user with various features which is relevant to his personality traits. Personality and User Behavior: The relation between personality and user behavior is tested. The hypothesis is that conscientiousness, agreeableness and neuroticism predict unique variance attitudes.

D. Proposed System

⠀⠀⠀Personality is the coherent patterning of affect, cognition, and desires (goals) as they lead to behavior. To study personality is to study how people feel, how they think, what they want, and finally, what they do. That people differ from each other in all four of these domains is obvious. The proposed system consists of pictorial test which depicts the personality traits of an individual. Proposed system will be developed by combining all the methods.
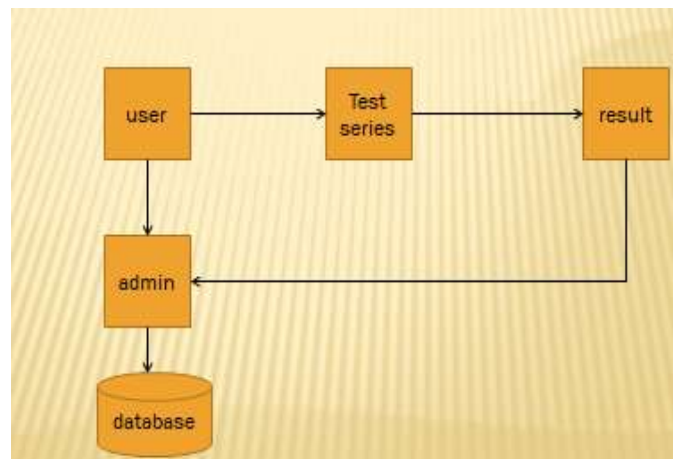

Fig1. Basic flow

III.⠀⠀⠀Conclusion

⠀⠀⠀A conclusion section must be included and should indicate clearly the advantages, limitations, and possible applications of the paper. Although a conclusion may review the main points of the paper, do not replicate the abstract as the conclusion. A conclusion might elaborate on the importance of the work or suggest applications and extentions.

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References

[1]   Barrick, M. R., & Mount, M. K. (1991). The Big Five personality dimensions and job performance: A meta analysis. Personnel Psychology, Vol. 44, pp. 1-26.

[2]   Ree, M. J., & Earles, J. A. (1992). Intelligence is the best predictor of job performance. Current Directions in Psychological Science, Vol. 1, pp. 86-89.

[3]   Schmidt, F. L., & Hunter, J. E. (1981). Employment testing: Old theories and new research findings. American Psychologist, Vol. 36, pp. 1128-1137.

[4]   http://dspace.tiss.edu/jspui/bitstream/1/7047/1/Research-MethodologyMethods-and Techniques-by-CR-Kothari.pdf

[5]   A Survey of Personality Computing,   Alessandro Vinciarelli Member, IEEE, and GelarehMohammadi - http://people.ict.usc.edu/~gratch/CSCI534/Readings/persosurvey.pdf

[6]   Ensemble Recommendation for Employability Using Cattell's Sixteen Personality Factor Model ByAshimaSood and Rekha Bhatia.

[7]   Shen, J., Brdiczka, O., Liu, J.: Understanding Email Writers: Personality Prediction from Email Messages, vol. 7899, pp. 318–330. Springer, 10–14 June 2013

[8]   https://scihub.cc/http://ieeexplore.ieee.org/document/6175005/

[9]   http://www.lrecconf.org/proceedings/lrec2008/pdf/759_paper.pdf

[10]   http://www.sciencedirect.com/science/article/pii/S0191886911001504

[11]   http://people.ict.usc.edu/~gratch/CSCI534/Readings/persosurvey.pdf

[12]   http://ieeexplore.ieee.org/document/6118590/

[13]   http://ieeexplore.ieee.org/document/5566454/

[14]   http://ieeexplore.ieee.org/document/7473448/

[15]   http://ieeexplore.ieee.org/document/7784983/

[16]   http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6240793&queryText%3DNovel +approaches+to+automated+personality+classification%3A+Ideas+and+their+potentials