

Personality Prediction Based Upon Big Five Personality Traits

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ABSTRACT

To find out how people lead, influence, communicate, collaborate and negotiate business, personality is very useful. Personality comes under one of the most important features used to determine how people interact with outside world. This project is helpful when the personal behavior comes in the play in the corporate world. On the basis of the data collected by the system, organizations can identify person based on personality traits. This collected data will be stored in database. User's personality characteristics are examined in database so that system can detect the user's personality. The data stored in database is used to classify person using Automated Personality Classification (APC) and using this classification we can predict or classify personality of user. Social networks, ad selling online networks who wants to sell more relevant ads, organizations and other companies who wants to recruit applicants based on personality of their employees can use this system. In this project, we propose a system which will be used for analyzing the personality of the applicant and give out the results.

Keyword: *Personality, Classification, APC, Personality Traits.*

INTRODUCTION

Traditional Styles of relating personality of person by their nature are time consuming and limited in scale. In traditional styles data is only anatomized using data collected from colorful sources. Predicting personality through this anatomized data without using personality traits is delicate and we cannot prognosticate exact personality of person. Our aimed System will give information about personality of person grounded on personality traits. System will match the personality traits with the data stored in the database and system will classify personality and will match the pattern with the stored data. Also, System will descry personality of the stoner. In this design we've used supervised machine learning algorithm.

LITREATURE SURVEY

Paper 1: Personality Vaticination Using Machine Literacy In Devesh Agarwal, Mr. M. Karthikeyan (3)

One of the major challenges for the design will be the collection of input datasets for the algorithm. For conducting the test, we're using K – Mean Clustering Algorithm. The dataset for testing the algorithm is collected from the party. This is done by giving a questionnaire on personality bracket. also, the collected information is fed to the personality bracket algorithm i.e., K- Mean Clustering Algorithm. Eventually, the algorithm evaluates the data on

the base of the big five personality traits and displays the result. To give you an idea, then a diagrammatical representation of the whole process we will follow for the conduction of the design.

Paper 2: Friend Recommendation System Grounded On Five Personality Test In Saharoui Dhelim, And Nyothri Aung (2)

In the literature of social networks, numerous FRSs have been proposed the Friendbook, an FRS that's grounded on semantic technologies, Friendbook recommends musketeers to druggies grounded on their cultures rather than social graphs, Friendbook identify cultures from stoner smartphone detector data, after detecting their cultures, it recommends musketeers that have analogous cultures.

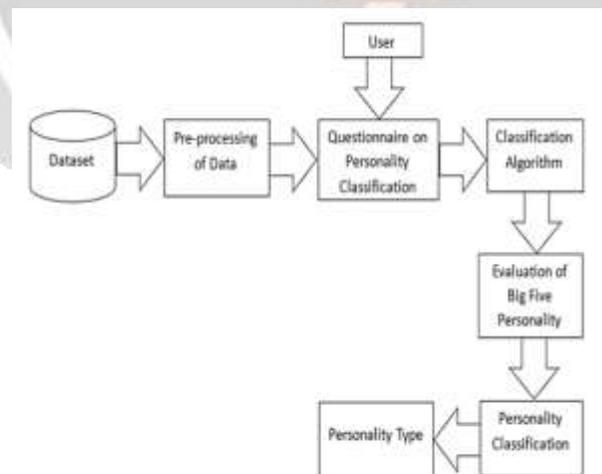
Paper 3: Personality Vaticination From Social Networks Text Using Machine Learning Mamta Bhamare,K. Ashok Kumar(1)

The purpose of this paper was to present a review of current work related to personality identification using online social networks or stoner written textbook and to identify unborn directions for personality vaticination exploration. As a result of our check, we've performed analysis of colorful styles or ways that are used for personality prognostications. We gave an overview of the multiple inquiries carried out from social networking biographies to automatically identify personality. We mentioned the dataset and methodology used for each of the exploration, followed by a debate of their main findings. We've also presented different unborn directions that could be useful for exploration.

Paper 4: Automated Personality Classification Using Big Five Personality Traits. V. Mamtha, Y. Harika, G. Shrinivasa Priya, Ch. Lakshmi Priya, S. Tejesh.

This paper is about different machine learning algorithms used for personality identification using personality traits. This paper descirbes relationship of user and his/her personality. This system is used to save time which is needed to take inerviews.

Block Diagram



1. Data Collection:

First Step is to collect data to decide training and testing dataset. Data in dataset is pretrained or classified based on personality traits so that when user enter new data system will able to predict.

2. Feature Extraction:

To pretrain the model, for personality prediction we are going to extract new features from collected dataset

3. Classification Of Data:

Data collected from answers of questionnaires given by user is classified using various machine learning algorithms into various personality traits based on past classification

4. Personality Classification:

After classifying users' data into various personality traits system will predict the personality of user.

Methodologies:

1. Logistic Regression -It is one of the powerful algorithms for regression and classification. It comes under Supervised Learning Techniques Logistic Regression is used to predict dependent variable using given set of independent variables. This uses Sigmoid Function and predicts the output

2. In decision tree internal node represent feature of dataset, branches represent the decision rules and each leaf node represent the output. This is supervised machine learning algorithm. Decision tree has Decision node and Leaf node, Decision node is used to make decision and have multiple branches where leaf nodes are the output and do not contain any further branches of a categorical dependent variable.

3. SVM is used to analyzed data and recognizes pattern for classification purpose. In SVM new dataset is taken and then classify according to existing dataset.

CONCLUSION

From above literature survey existing systems used various algorithms to predict personality which has less accuracy to overcome that we are going to use algorithms like logistic regression, decision tree and SVM. This algorithm gives more accurate results as compared to others. In this project we are going to implement the system which will predict the personality using data collected from user by giving them questionnaire based on personality traits. We are going to use different machine learning algorithm to classify collected data according do personality traits to predict the personality.

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