

PERSONALITY PREDICTION PROJECT

Project Report

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BACKGROUND OF PROJECT

The project is based on identifying the personality of an individual using machine learning algorithms and big five models. The personality of a human plays a key role in his personal and professional life. Nowadays, many organizations have also started shortlisting the candidates based on their personality as this increase the efficiency of the work because the person is working in what he is good at than what he is forced to do.

The **Big Five model** is also known as the **Five-Factor Model (FFM)** and **OCEAN model** was developed in the early 1980s according to many psychological theories. When the statistical analysis is applied to personality survey data, some words used to describe the person and these words give a summary of the overall character or personality of the person accurately.

- **Open to Experience:** It involves various dimensions, like imagination, sensitivity, attentiveness, preference to variety, and curiosity.
- **Conscientiousness:** This trait is used to describe the carefulness and diligence of the person. It is the quality that describes how organized and efficient a person is.
- **Extraversion:** It is the trait that describes how the best candidates can interact with people that is how good are his/her social skills.
- **Agreeableness:** It is a quality that analyses the individual behaviour based on the generosity, sympathy, cooperativeness, and ability to adjust with people.
- **Neuroticism:** This trait usually describes a person to have mood swings and has extreme expressive power.

DESCRIPTION OF THE PROJECT

This project demonstrates the prediction of a person's personality trait based on his/her handwritten characters. The data set used in this project is self-made. It uses SVM machine learning algorithm for the prediction. It uses sci-kit learn framework and OpenCV an open-source computer vision and machine learning library.

Input: Takes the image of the handwriting character and show the personality trait of the individual.

Output: Model predict the personality of an individual based on his handwriting in image.

TECHNOLOGY USED:

Uses scikit-learn machine learning python library,matplot-lib and self-made dataset, Open CV2.

PERSONALITY TO BE PREDICTED

1.Energetic Trait

2.Optimistic Trait

3.sloppy Trait

4.Extrovert Trait

5.Introvert Trait

#Input file ANKIT.jpeg

#output file output.PNG Predicting Extrovert Trait

Below is the GitHub Link of the Project

https://github.com/shivamunique/per_pre_proj.git