**Introduction and Overview:**

The project is based on identifying the personality of an individual using machine learning algorithms and big 5 models. The personality of a human plays a major 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 mode**

The predictive analysis of personality assessments provides an overview of a candidate's behavioural tendencies and that allows recruiters to really understand if a candidate will, in fact, be a top performer and if he will fit the culture of the company.

**What Are The ‘5 Personality Factors’?**

The 5 personality factors are Neuroticism, Extraversion, Openness to experience, agreeableness, conciseness.

**Implementations**

**# Personality-prediction**

> From the given database `response.csv` Find out the personality traits using this personality prediction project.

**## Let's get started**

[![](https://img.shields.io/badge/author-@SagarDarji-blue.svg?style=flat)](https://www.linkedin.com/in/sagar-darji-7b7011165/)

The system will predict one's personality and their traits through basic survey.This system will help the human resource to select right candidate for desired job profile, which in turn provide expert workforce for the organization.

**### Applications in psychology:**

Factor analysis has been used in the study of human intelligence and human personality as a method for comparing the outcomes of (hopefully) objective tests and to construct matrices to define correlations between these outcomes, as well as finding the factors for these results. The field of psychology that measures human intelligence using quantitative testing in this way is known as psychometrics (psycho=mental, metrics=measurement).

**### Advantages:**

- Offers a much more objective method of testing traits such as intelligence in humans

- Allows for a satisfactory comparison between the results of intelligence tests

- Provides support for theories that would be difficult to prove otherwise

**## Algorithm**

```python

Refine the Data

Prepare the Data

Choose the Factor

variable

correlation matrix

using any method of factor analysis such as EFA

Decide no. of factors

factor loading of factors

rotation of factor loadings

provide appropriate no. of factors

**Conclusion:**

This prediction is almost 8-15% close to the original personality trait a person has. To predict the personality of a person, social media websites play a vital role. We have used the Facebook API to train our model and also to make the calculations more accurate

The first three Factors are very clear: Extraversion, Neuroticism and Conscientiousness. The other two not to much. Anyway is a very interesting approximation