MATURI VENKATA SUBBA RAO (M.V.S.R) ENGINEERING COLLEGE

(An Autonomous Institution)

Department of Information Technology

PERSONALITY PREDICTION

TEAM NO - 02

TEAM DETAILS

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DETAILS OF INTERNSHIP

Name : AICTE EduSkills - AWS Academy

Domain: AI-ML

Duration: 10 Weeks

Mode of Internship: Virtual Internship

ABSTRACT

Personality traits play a significant role in understanding human behavior, preferences, and decision-making processes. Predicting personality traits can have applications in various fields, including psychology, marketing, and personalized traits content recommendation. The project aims to develop a robust machine learning model for personality prediction based on user data and behavior. Machine Learning algorithms are applied to this dataset to create a predictive model capable of determining personality traits, including the Big Five personality traits (Openness, Conscientiousness, Extraversion, Agreeableness, and Neuroticism. Key components of the project include data preprocessing, feature engineering, and the selection of suitable machine learning algorithms. In conclusion this machine learning project aims to develop a powerful tool for personality prediction, with broad applications in understanding and catering to individual needs and preferences in today’s data driven world.

INTRODUCTION

Personality Prediction project is to develop a predictive model capable of accurately determining personality traits by analyzing relevant data points. Personality traits, often classified using well-established frameworks like the Big Five Personality traits (Openness, Conscientiousness, Extraversion, Agreeableness, and Neuroticism), provide a comprehensive understanding of an individual's behavioral tendencies.

PROBLEM STATEMENT

In contemporary times, understanding personality traits has become crucial in various domains. Identifying personality traits accurately can lead to better user experiences and more effective decision making-processes.

EXISTING SYSTEM

Traditionally, personality assessments were often conducted through subjective methods, surveys, or interviews. These methods are time-consuming, and the results may be prone to biases.

PROPOSED SYSTEM

The proposed system aims to leverage ml techniques to predict personality traits based on objective data. It aims to overcome the limitations of traditional approaches by utilizing machine learning models to make data-driven predictions, offering a more accurate and personalized analysis of personality traits. By analyzing user data, the system intends to provide more efficient and automated personality predictions.

SCOPE

The scope of this project is to develop a machine learning model that predicts personality traits based on certain input features. The model will be trained on a dataset containing labelled personality data. The scope of the Personality Prediction Project extends beyond the development of a prediction model; it involves creating a versatile and impactful tool that can be applied across various domains to enhance understanding and decision-making based on personality traits.

SYSTEM REQUIREMENTS & SPECIFICATIONS

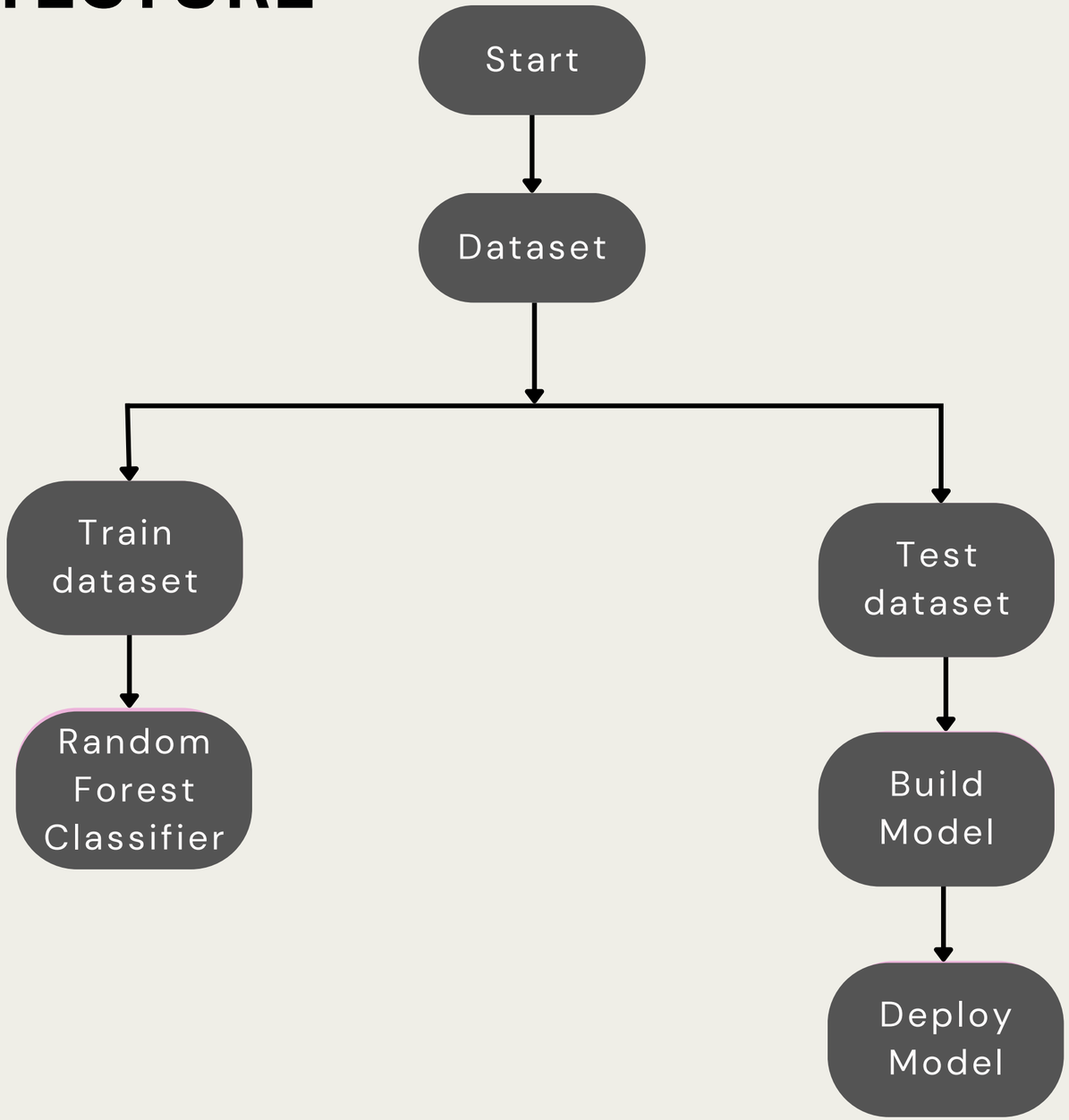
SOFTWARE REQUIREMENTS

- Programming Language - Python
- Web Framework - Flask
- Machine Learning Library
  i) Scikit-learn
- Data Manipulation Libraries:
  i) Pandas
  ii) Numpy
- Front end Technologies:
  i) HTML
  ii) CSS

HARDWARE REQUIREMENTS

- Personal Laptop
  Intel core i5 - 11th gen
  8 Gb RAM
  Stable Internet Connection
- Operating System
  Windows 11

SYSTEM ARCHITECTURE



DESIGN & IMPLEMENTATION

Multifaceted Personality Trait Prediction

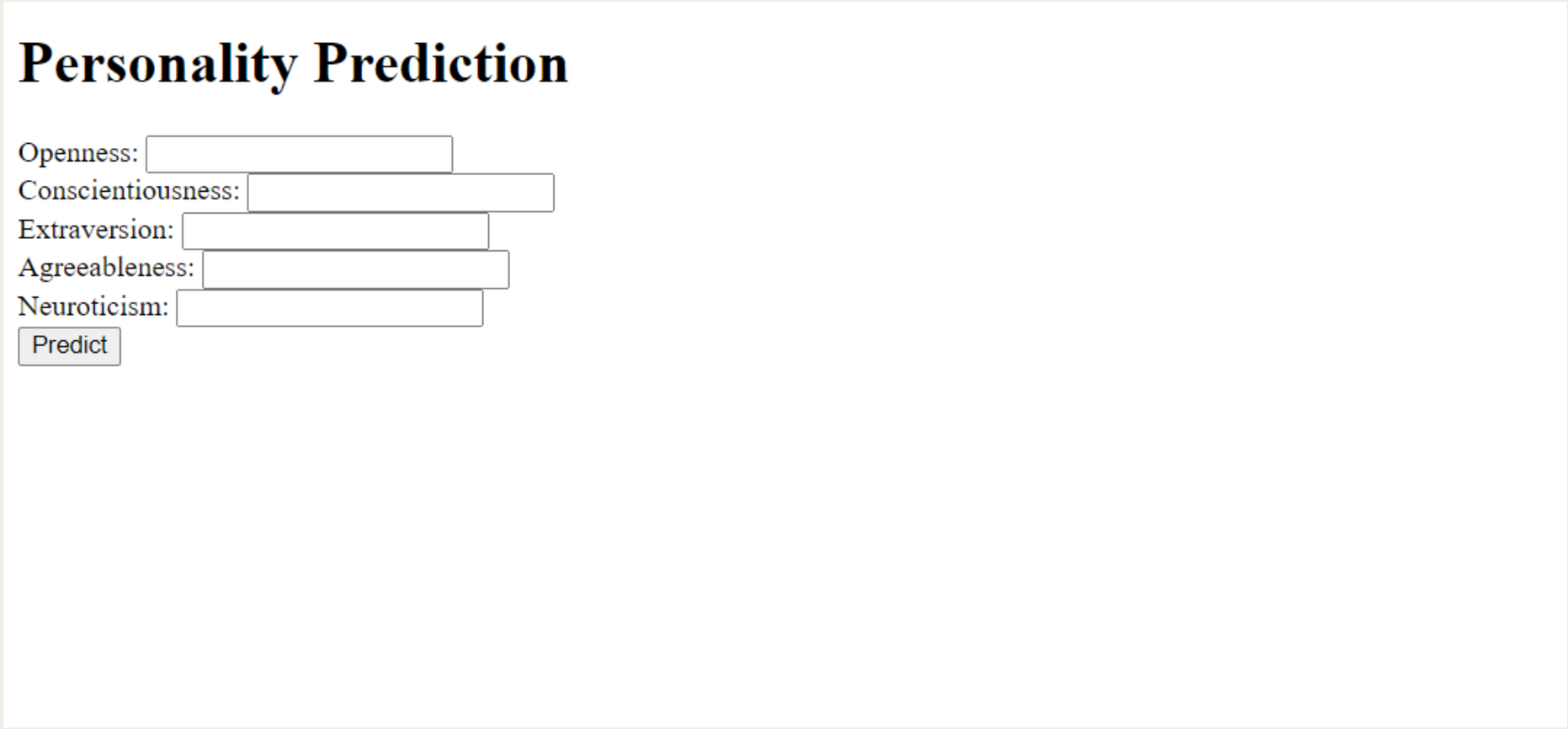
- The system predicts multiple personality traits, including openness, extraversion, agreeableness, and neuroticism.
- It offers a comprehensive analysis of an individuals personality by considering various dimensions.

- The project provides a interactive and user-friendly interface for users to input their personal information easily.
- The interface ensures a seamless experience, allowing users to receive predictions about their personality traits effortlessly.

Interactive User Interface

RESULTS

HOME PAGE



INPUT PAGE

Personality Prediction

Openness: 7
Conscientiousness: 6
Extraversion: 6
Agreeableness: 7
Neuroticism: 5
Predict

OUTPUT PAGE

Personality Prediction Result

The predicted personality is: Responsible

CONCLUSION

In conclusion, the Personality Prediction Project, employing machine learning techniques, has successfully demonstrated its ability to predict individual personality traits based on certain input features. By analyzing specific attributes, such as gender, age, and behavioral traits, the project aims to provide users with insights into their personalities and enhance their self-awareness. The project has the potential for a positive societal impact by promoting self-awareness and personal growth. It can be utilized as a tool for individuals seeking to better understand themselves, fostering a culture of continuous improvement and self-discovery.

Thank You