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**Department of Intelligent Systems**

**School of Computer Science Engineering**

**Lovely Professional University, Jalandhar**

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**Personality Prediction System**

END TERM REPORT

***By***

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**Student Declaration**

This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged. We aver that if any part of the report is found to be copied, we are shall take full responsibility for it.

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**BONAFIDE CERTIFICATE**

Certified that this project report “………. **Personality Prediction System**…………….” is the bonafide work “…….. **Praharsh Kumar Singh, T. Nikhil Vamsi, Vanukuri Mohana Subba Reddy, N. Bhaskar** ………” who carried out the project work under my supervision.

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**Personality Prediction System**

Simple demonstration of using data mining concepts and python data science libraries to analyse and classify personalities of a given set of people or an individual.

**Abstract**

The project uses learning algorithms and advanced data mining concepts to mine user characteristics data and learn from the patterns.

This project will come across areas where it has access to large amounts of person behavioural data. This data can be helpful to classify persons using Automated personality prediction and classification. There are areas where there is access to large amounts of person behavioural data. This data can help us classify persons using automated personality classification.

**Approach**

Five characteristics of different individuals commonly known as big five characteristics namely, openness, neuroticism, conscientiousness, agreeableness and extraversion are stored in a dataset and used for training. Based on this training, the personality of individuals are predicted using data mining concepts. Before testing the dataset, it is pre-processed using different data mining concepts like handling missing values, data discretization, normalisation etc. This pre-processed data can then be used to classify/predict user personality based on past classifications. The system analyses user characteristics and behaviours. System then predicts new user personality based on personality data stored by classification of previous user data.

Model used to predict test dataset is “Logistic Regression” because Logistic regression is an effective model to predict output class labels for dependent categorical data.

**Dataset description**

**Attribute Description:**

**No. of attributes are 7 as listed below.**

**|S.NO | ATTRIBUTE | TYPE |RANGE|**

**| -------| ------------------ | ----------- | --------- |**

**| 1 |Gender |nominal |Male / Female|**

**| 2 |Age | numeric| 17-28|**

**| 3 |Openness | numeric | 1-8 |**

**| 4 |Neuroticism |numeric | 1-8 |**

**| 5 |Conscientiousness |numeric| 1-8 |**

**| 6 |Agreeablenes |numeric | 1-8|**

**| 7 |extraversion | numeric | 1-8|**

**Class label description:**

**No. of class labels: 5**

**Type: Nominal**

**Values:**

**● Extraverted**

**● Serious**

**● Responsible**

**● Lively**

**● dependable**

**Technologies and framework**

In this we use following technology.

* **Importing pandas**
* **Importing NumPy**
* **Importing sklearn**

**SWOT Analysis**

* **Strength-**this project shortlists CVs on the basis of trained sheet and give smarter results.
* **Weakness-** there is no weakness.
* **Opportunity-** In our real life, this software will make HR work easier.
* **Threats-**If system works intelligently then its better as compared to human.

**Github link**

<https://github.com/praharsh77/AI_project>