COMSATS University Islamabad, Lahore Campus

Project Registration

Instructor: Dr. Allah Bux Sargana   **Group #:**_____

Course Title: CSC354- Machine Learning   **Date:** ___25-05-2022_____

Project Title: Personality Prediction

Name	Reg# #	Email	Phone #	CGPA	Credit (for office use)				
					5	10	10	15	10
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Note: (Study any research paper of your domain. Do attach it and refer. Answer the following questions)

1. Problem Statement: **What** kind of problem is considered to be solved?

   The problem is to predict the personality of person using his feedback. It's unsupervised type problem which will create clusters of different personality traits.

   User will fill the feedback form and ML unsupervised model will analyze in which cluster (of personality traits) the user lies.

2. Motivation: **Why** is this problem important to be solved?

   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.

3. Methodology: **How** will this problem be solved?

   First of all, we will find the related dataset of different kinds of personalities.

   Second, we will clean the data, remove noisy entities using python libraries like numpy, pandas etc.

   Third, we train the model using different unsupervised algorithms like K-mean etc.

   Then, we will create clusters of different personalities.

After all, we visualize the model using python libraries like Matplotlib etc.

After that, model will analyze the class label based on calculations.

At the end, we will test model using new unlabel data to check the personality of new person.

Reference:

https://www.scienceofpeople.com/personality/

Project Instructions (Total Marks: 50)

1. Make a group of up to 4 persons and select your group leader, or you can do it alone.
2. You can come up with your own idea within the justified scope of a course project OR Search for a research paper/idea in your subject/course domain
3. Complete the proposal and submit it on MS Team.

Distribution of credits:

1. Submission of proposal   (**5 marks)**
2. Submission of the following documents before **June 10, 2020.**
   a. **Hardcopy of project report**
      The layout of the project report: The entire report must be on a standard sheet size (e.g., A4 size), bound on the left side using clear plastic standard binding products.

      Page 1: Cover page: The proposal should be the same as the title, your name, and registration number.

      Page 2: 1-Page summary of the project

      Page 3-4: Explanation of Methodology and Discussion of results. One to two pages.
   b. **Soft copy of project report, Source code with all associated files, and Presentation file to be uploaded on MS Team.**
3. Project presentation, demonstration/code and viva-voce   (**10+15+20=45 marks)**

Warning: Plagiarism or cheating in any form would result in an **F** grade in the course without any warning or notice.