**BAHRIA UNIVERSITY KARACHI CAMPUS**

**DEPARTMENT OF COMPUTER SCIENCE**

****

**COURSE NAME (COURSE CODE)**

**Class - Term**

**PROJECT NAME**

**Submitted by:**

NAMES (Enroll NO)

**Submitted To:**

*Engr. Rabia Amjad*

**Submitted On:**

Date

Report should cover these at least these headings:

1. Acknowledgement
2. Abstract  
     
   This report presents an analysis of personality traits based on survey responses. The dataset, obtained from a diverse group of individuals, is analyzed to identify personality clusters and gain insights into their characteristics. Key techniques include data preprocessing, clustering with K-means, and Principal Component Analysis (PCA) for visualization.
3. Table of contents
4. Introduction  
     
   The report focuses on analyzing personality traits using data-driven approaches, specifically examining survey responses to identify personality clusters. Key personality dimensions explored include extraversion, neuroticism, agreeableness, conscientiousness, and openness.
5. Problem statement
6. Existing Systems *(Show Comparison with existing systems to differentiate how your project is different from existing similar projects)*
7. Objectives and goals
8. Project Scope
9. Workflow *(Present in UML representation)*  
     
   The workflow involves dataset selection and cleaning, data visualization, clustering analysis, model training and testing. Machine learning techniques, particularly K-means clustering, are utilized.
10. Overview of project
11. Tools and Technologies
12. Project features *(mention here functional and non-functional requirements covered)*
13. (Course name) implemented concepts *(show detailing with code)*
14. Output *(screen shots with details)*  
      
    The output includes model visualizations and predictions of personality traits, offering insights into human behavior patterns.
15. Future work
16. Conclusion  
      
    The project highlights the potential of machine learning in analyzing social media data for personality prediction, with practical applications in various domains.
17. References (Use IEEE Referencing style)  
      
    References include academic journals and resources on data mining, machine learning, and personality trait analysis.

**GUIDELINES FOR PROJECT REPORT**

1. The project report should be hard bound
2. The front cover of the report should be in printed form along-with the university logo (new).
3. The font used should be Times New Roman, 12 points plain, with one-and-a-half (1.5) spacing between two consecutive lines
4. For sub-headings, increase one point and for main headings increase one more point.
5. All the pages should be properly numbered.

SUBMIT IN PDF BEFORE DEADLINE