

# Detecting Mental Disorder in Social Media through Emotional Pattern

Mr. S. R. Tribhuvan<sup>1</sup>, Miss. V. D. Vaidya<sup>2</sup>, Thorat Rushikesh Dilip<sup>3</sup>, Thorat Jay Sunil<sup>4</sup>,  
Labade Yash Ganesh<sup>5</sup>, Labade Om Vijay<sup>6</sup>

<sup>1,2,3,4,5,6</sup>Department of Cloud Computing and Big Data

Padmashri Dr. Vitthalrao Vikhe Patil Institute of Technology and Engineering (Polytechnic), Pravaranagar

**Abstract:** *Mental health disorders such as depression, anxiety, and stress are increasingly prevalent, often going undetected due to stigma or lack of access to timely support. With the rise of social media as a platform for self-expression, there is a unique opportunity to identify early signs of mental distress through users' online behavior and emotional expressions. This project proposes a system that utilizes Natural Language Processing (NLP) and machine learning techniques to analyze emotional patterns in social media posts, aiming to detect indicators of mental health issues. By focusing on linguistic features, sentiment analysis, and emotional fluctuations over time, the system offers a non-intrusive, privacy-conscious approach to monitoring mental well-being. The goal is to support early intervention efforts, raise mental health awareness, and provide actionable insights for professionals and individuals alike.*

**Keywords:** Mental health detection, Social media analysis, Emotional pattern recognition, Natural Language Processing, Sentiment analysis

