

## **PREDICTING PERSONALITY TRAITS FROM HANDWRITING**

**Abstract**—Whenever we listen to or meet a new person we try to predict personality attributes of the person. Our behavior towards the person is hugely influenced by the predictions we make. Personality is made up of the characteristic patterns of thoughts, feelings and behaviors that make a person unique. Your personality affects your success in the role. Recognizing about yourself and reflecting on your personality can help you to understand how you might shape your future. Various approaches like personality prediction through speech, facial expression, video, and text are proposed in literature to recognize personality. Personality predictions can be made out of one's handwriting as well. The aim of this research project is to examine validity of the Graphological method to assess personality traits. This research project outlines the development of a Supervised Neural Network Model for the personality prediction. Machine learning techniques have been widely used in various fields for complex pattern matching and making decisions. The research based system based on neural networks was proposed that aims to determine the Big Five personality traits with handwriting features from data sets containing both predefined and random texts. The predefined texts add more value if enforced on writers in the training stage. Handwriting Analysis or Graphology is a consistent method for perceiving, surveying and understanding personality through the strokes and structures revealed by handwriting. Handwriting reveals authentic character including excited, fears, validity and various others. Capable handwriting experts called graphologist every now and again recognize the writer with the touch of handwriting. This research project presents a prediction on a big five personality traits from handwriting using FFM and Graphological analysis.

**Index Terms**—Supervised Neural Network Model, Personality Prediction, Machine Learning, Handwriting Analysis, Graphology, FFM