

**UNIVERSITY OF  
WESTMINSTER** 卍



**INFORMATICS  
INSTITUTE OF  
TECHNOLOGY**

**INFORMATICS INSTITUTE OF TECHNOLOGY In collaboration with The  
University of Westminster, UK**

**BEng (Hons) DEGREE PROGRAMME in SOFTWARE ENGINEERING**

**Final Year Project 2018 / 2019**

**“Psycho-Fact”**

**Psychopathy Prediction and Factorial Classification on  
Twitter Profiles**

**By**

**S.G.V.P.B.Gunasekara**

**Student No: 2015238 / W1608462**

**Supervised by**

**Mr. Charitha Senarathne**

---

S G V P B Gunasekara

---

Charitha Senarathne

---

## Abstract

Psychopathy is defined as a mental (antisocial) disorder in which an individual exhibits an amoral and antisocial behavior, lacks the ability to love or establish meaningful personal relationships, expresses extreme egocentricity and does not learn from experience or other conditions. Psychopath is not a condition that can identify by first look. Person with such a condition could be doesn't even aware about his antisocial behavior. In psychology psychopathy identification used empirical methods which used patient's feedback which can be frauded. With the popularity of the micro blogging sites like fakebook and twitter people share their fillings, expressions, thoughts, comments. These contents able to reveal about their personality analyzing linguistics traits. Social media usage become the traces people leave over the internet. Those traces and language become key factor in identifying personal personality. Commonly psychopath consider as extremely dangerous but taking all the psychopaths are not dangerous. Psychopath do have identified factorial structure. Modern studies identified four distinct four factors of psychopaths. Such factors assist examiner to classify psychopath.

Proposed solution enables to analyze twitter profile contents (demographic and text-based) to identify a person as a psychopath or not. Furthermore, find out aspects which cause to psychopath state and analyze with psychopath factor structure to allocate person into sub-clusters of psychopathy since it helps treatments to be specific on a person who identified as a psychopath and also to assist researches exploring psychopath

Company employee's mental health directly affect to company's financial status. With the development with technology services able to meet employees and customers without direct involvement of company. Company doesn't have individual assessments on each employee. There can be employees with different personalities even employees with psychopath condition. But utilizing with systems with proposed solution could examine each individual using their social media contents.

This system was implemented and tested under proper testing criteria and evaluated by selected evaluators with positive feedbacks. This solution can be identified as a positive research