

Universiti Teknologi MARA

**EVALUATING EXPRESSION
EMOTION DISORDER BASED ON
TEXT MINING APPROACH**

Nur Ammar Amira Binti Ahmad

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ABSTRACT

The emergence of online social network can serve as an alternative tools to help in finding answer to a variety of problem in information retrieval. As most of user nowadays are effectively use social media to interacting with people in the country and across the world it is suitable platform for researchers to use. The goal of this report is to use data mining technique to extract the knowledge in finding the potential user that suffer in depression using the data from the social media. For this report, Facebook is chosen as a medium to collect the data. This report is conducted to give an advantage for future researcher and clinician in finding the answer towards depression cases faster than traditional system or procedure. In developing this project the text mining technique are used to finding useful pattern and trend from the thousand data collected. The textual data collected also will undergoes process in determining emotion up to six emotion and for the classification algorithm, Multinomial Naïve Bayes are selected as the algorithm work best with big data. The system will be able to classify candidate possibly suffering in depression with high accuracy.

TABLE OF CONTENTS

CONTENT	PAGE
SUPERVISOR'S APPROVAL	ii
STUDENT'S DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
TABLE OF CONTENTS	vi
LIST OF FIGURES	ix
LIST OF TABLES	xi
LIST OF ABBREVIATIONS	xii
CHAPTER ONE: INTRODUCTION	
1.1 Background Study	1
1.2 Problem Statement	2
1.3 Research Question	2
1.4 Research Objective	2
1.5 Scope	3
1.6 Project Significance	3
1.7 Summary	3
CHAPTER TWO: LITERATURE REVIEW	
2.1 Social Network	4
2.2 Data Mining	6
2.3 Text Mining	7

CHAPTER 1

INTRODUCTION

This chapter provides the background and rationale for the study. The main elements are comprises of background of study, problem statement, research question, research objectives, research scope, research significance and research outline of the thesis.

1.1 Background Study

The emergence of social media platform on internet nowadays, causes public society to express their emotion and experiences globally. Over the year, it has become a trends to public in all age range. This research is conducted to examine emotional online post that is from a selected social media to relate with mental disorder. Mental disorder should not be taken easy. Failure to intervene early give serious impacts on individuals and their family life. To cure or identify this emotion disorders, patient has to make face-to-face discussions with family members and clinicians which difficult for many individuals. Besides, the patient also has to undergo series of test which would cost huge sum of money. Thus, creating a prototype in providing classification based on textual data from internet is essential.

The focus for this report is to classify whether a user is suffering from Major Depressive Disorder (MDD) based from the posted symptoms. MDD is categorized as Mood disorder and this illness happens usually because of depression or loss of interest in almost everything. Depression is a common health problem that can be cause biological, mental and social factor or the combination of all the three states. Depression is also known as silent epidemic as this disease is hard to recognize. There are nine symptoms to determine whether a patient is suffering from MDD and eight of the symptoms can be classified from textual data. MDD must have at least four symptoms and this symptom happen for two consecutive weeks. Besides, this research also wants