

---

# CONTENTS

<b>APPROVAL</b>	<b>ii</b>
<b>SELF DECLARATION AGAINST PLAGIARISM</b>	<b>iii</b>
<b>ABSTRACT</b>	<b>iv</b>
<b>ABSTRAK</b>	<b>v</b>
<b>DEDICATION</b>	<b>vi</b>
<b>ACKNOWLEDGMENTS</b>	<b>vii</b>
<b>PREFACE</b>	<b>viii</b>
<b>CONTENTS</b>	<b>ix</b>
<b>LIST OF TABLES</b>	<b>xi</b>
<b>LIST OF FIGURES</b>	<b>xii</b>
<b>LIST OF TERMS</b>	<b>xiii</b>
<b>LIST OF NOTATIONS</b>	<b>xiv</b>
<b>1 INTRODUCTION</b>	<b>1</b>
1.1 Rationale . . . . .	1
1.2 Theoretical Framework . . . . .	2
1.3 Conceptual Framework/Paradigm . . . . .	2
1.4 Statement of the Problem . . . . .	3
1.5 Objective and Hypotheses . . . . .	3
1.6 Assumption . . . . .	4
1.7 Scope and Delimitation . . . . .	4
1.8 Significance of the Study . . . . .	4
<b>2 REVIEW OF LITERATURE AND STUDIES</b>	<b>5</b>
2.1 Related Literatures . . . . .	5
2.2 Related Studies . . . . .	6
2.2.1 Feature Enrichment (User-based Feature, Content-based Feature, LIWC Feature) . . . . .	6
2.2.2 Feature Expansion . . . . .	7

---

<b>3 RESEARCH METHODOLOGY</b>	<b>8</b>
3.1 Research Design . . . . .	8
3.1.1 Preprocessing . . . . .	8
3.1.2 Tweet Feature Extraction using TF-IDF . . . . .	9
3.1.3 Feature Expansion . . . . .	10
3.1.4 Feature Enrichment . . . . .	10
3.1.5 Evaluation Metrics . . . . .	12
3.1.6 Experiment Scenario . . . . .	12
3.2 Instrumentation and Data Collection . . . . .	12
3.3 Tools for Data Analysis . . . . .	14
<b>4 PRESENTATION, ANALYSIS AND INTERPRETATION OF DATA</b>	<b>15</b>
4.1 Presentation of Data . . . . .	15
4.1.1 Creating Baseline . . . . .	15
4.1.2 Feature Enrichment . . . . .	16
4.1.3 Feature Enrichment + Feature Expansion . . . . .	16
4.2 Analysis of the Data . . . . .	17
4.3 Summary of Findings . . . . .	19
<b>5 CONCLUSION AND RECOMMENDATIONS</b>	<b>21</b>
5.1 Conclusions . . . . .	21
5.2 Recommendations . . . . .	21
<b>BIBLIOGRAPHY</b>	<b>22</b>
<b>Appendices</b>	<b>23</b>
<b>A MISCELLANEOUS</b>	<b>25</b>
A.1 DASS-42 Questionnaire . . . . .	25
<b>B Curriculum Vitae</b>	<b>26</b>