

TABLE OF CONTENTS

DECLARATION	ii
ACKNOWLEDGEMENTS	iii
ABSTRACT	iv
ABSTRAK	v
TABLE OF CONTENTS	vi
LIST OF FIGURES	ix
LIST OF TABLES	x
LIST OF ABBREVIATIONS AND SYMBOLS	xi
1. INTRODUCTION	1
1.1. Background	1
1.2. Motivation	2
1.3. Research Problem	3
1.4. Objectives of the Research	4
1.5. Assumptions and Constraints	4
1.6. Scope of Research	5
1.7. Outline of Thesis	5
2. BACKGROUND & RELATED WORK	7
2.1. Sentiment Analysis & Classification	7
2.2. Sentiment Classification Approaches	9
2.2.1. Lexicon-based Approaches	9

2.2.2.	Machine Learning Approaches	9
2.3.	Summary	11
3.	RESEARCH METHODOLOGY	12
3.1.	Proposed Methodology	14
3.1.1.	Data Set	15
3.1.2.	Data Pre-processing & Training	18
3.1.3.	Data Testing	19
3.1.4.	Tools	20
4.	IMPLEMENTATION	23
4.1.	Stanford Parser Tagging	23
4.2.	Position of Text	24
4.3.	Processing of Tag Words	25
4.4.	Classification	27
5.	RESULTS & EVALUATION	29
5.1.	Performance Metrics	29
5.1.1.	Precision and Recall	29
5.1.2.	F measure	30
5.2.	Results & Discussion	30
6.	CONCLUSION	36
6.1.	Summary of Results	36
6.2.	Research Contribution	36

6.3. Future Work	36
7. REFERENCES	38
APPENDIX A.....	42
A.1 PHP text script for extraction of tag word	42
APPENDIX B	45
B.1 Overview of Results	45
B.2 WEKA Classifier Output	49
B.2.1 Result for Classification based on Emotions.....	49
B.2.2 Result for Classification based on Polarity	58