

TABLE OF CONTENTS

ABSTRACT	i
APPROVAL SHEET	ii
SHEET STATEMENT OF ORIGINALITY	iii
FOREWORD	iv
TABLE OF CONTENTS	v
LIST OF FIGURES	viii
LIST OF TABLES	ix
LIST OF APPENDICES	x
LIST OF TERMS AND SYMBOLS	xi
CHAPTER I INTRODUCTION	1
I.1 Background.....	1
I.2 Problem Statement.....	2
I.3 Research Objectives	3
I.4 Research Scopes	3
I.5 Research Benefit.....	3
I.6 Systematic of Writing.....	4
CHAPTER II LITERATUR REVIEW.....	7
II.1 Covid-19 Vaccination.....	7
II.2 Text Mining.....	7
II.3 Sentiment Analysis.....	8
II.4 Algorithm Comparison.....	9
II.4.1 Naïve Bayes	9
II.4.2 Naïve Bayes Objectives	9
II.4.3 K-Nearest Neighbor	10

II.4.4	Decision Tree	10
II.4.5	SVM (Support Vector Machine).....	10
II.4.6	K-Means.....	10
II.4.7	Comparison Conclusion.....	11
II.5	Data Processing	11
II.5.1	Scraping/Crawling.....	11
II.5.2	Cleansing.....	12
II.6	Evaluation Method	12
II.7	Justification Method	13
II.8	State of The Art	15
CHAPTER III METHODS OF RESEARCH		26
III.1	Conceptual Model	26
III.2	System of Research	27
III.2.1	Preliminary Stage.....	28
III.2.2	Pre-Processing Data	29
III.2.3	Processing Data.....	29
III.2.4	Evaluation	29
III.2.5	Final Stage	30
III.3	Data Collection.....	30
III.4	Data Analysis or Development Process of Product/Artifact	31
III.5	Tokenization.....	31
III.6	Stemming.....	31
III.7	Stopword.....	32
CHAPTER IV DATA COLLECTION AND PROCESSING		33
IV.1	Data Collection.....	33
IV.2	Data Preprocessing	36

IV.2.1	Data Cleansing	36
IV.2.2	Data Processing.....	37
IV.2.3	Tokenization	38
IV.2.4	Stopwords	38
IV.2.5	Stemming	39
IV.3	Naïve Bayes Classification.....	41
IV.4	Model Test.....	41
IV.5	Model Evaluation	41
CHAPTER V ANALYSIS AND EVALUATION OF IMPLEMENTATION		
	RESULT	43
V.1	Algorithm Implementation Analysis	43
V.2	Data Retrieval.....	43
V.2.1	Confusion Matrix	44
CHAPTER VI CONCLUSIONS AND SUGGESTION.....		
VI.1	Conclusions	47
VI.2	Suggestion	47
	REFERENCES.....	49