
CONTENTS

APPROVAL	ii
SELF DECLARATION AGAINST PLAGIARISM	iii
ABSTRACT	iv
ABSTRAK	v
DEDICATION	vi
ACKNOWLEDGMENTS	vii
CONTENTS	viii
LIST OF TABLES	x
LIST OF FIGURES	xi
LIST OF TERMS	xii
1 INTRODUCTION	1
1.1 Rationale	1
1.2 Theoretical Framework	3
1.3 Conceptual Framework/Paradigm	5
1.4 Statement of the Problem	7
1.5 Objective and Hypotheses	8
1.6 Scope and Delimitation	9
1.7 Significance of the Study	9
2 REVIEW OF LITERATURE AND STUDIES	11
2.1 Related Literatures	11
2.2 Related Studies	13
2.2.1 Isolation Forest (iForest)	13
2.2.2 Pruning Anomalies	15
2.2.3 Local Outlier Factor (LOF)	16
2.2.4 Density-Based Spatial Clustering Of Applications With Noise (DB-SCAN)	17
2.2.5 Performance Evaluation	18

3	RESEARCH METHODOLOGY	19
3.1	Research Design	19
3.2	System Design	21
4	IMPLEMENTATION AND RESULT ANALYSIS	32
4.1	System Implementation	32
4.1.1	Data Preprocessing	32
4.1.2	Proposed Method Building	33
4.1.3	Scenario of Experiment	34
4.2	Result Analysis	36
5	CONCLUSION AND RECOMMENDATIONS	40
5.1	Conclusions	40
5.2	Recommendations	41
	BIBLIOGRAPHY	43