

Contents

	List of Figures	
	List of Tables	
Chapter 1	INTRODUCTION 1.1 Existing Approaches 1.2 Motivation 1.3 Aim and Objective 1.4 Organisation of Dissertation	1-3
Chapter 2	ENSEMBLE OF CLASSIFIERS 2.1 Construction of Ensembles 2.2 Ensemble Combination Methods	4-11
Chapter 3	RELATED WORK 3.1 Existing Ensembles 3.2 Motivation for new Ensemble method	12-16
Chapter 4	OUR PROPOSED MODEL 4.1 Experimental Results	17-31
Chapter 5	META ENSEMBLE	32-34
Chapter 6	CONCLUSIONS AND FUTURE SCOPE	35
	REFERENCES	36

List of Figures

2.1	Classifier Selection Technique	5
2.2	Classifier Fusion Technique	5
3.1	Bagging	12
3.2	Block diagram of multiple classifier systems based on Boosting	13
3.3	Block diagram of multiple classifier systems based on Stack Generalization	14
3.4	Block diagram of multiple classifier systems based on Mixture-of-experts	15
4.1	Architecture of the Proposed Model	17
4.2	2-D array storing Class performances of each base classifier	19
4.3	Performance Analysis of the three Classifiers	22
4.4	Performance Analysis J48	24
4.5	Performance Analysis NB	25
4.6	Performance Analysis IBK	27
4.7	Performance Analysis of all the Classifier Ensembles	28
4.8	Performance Analysis of the Proposed Model	29
4.9	Performance Analysis of the Proposed Model with Existing Ensembles	31
5.1	Architecture of the Meta-ensemble	32
5.2	Performance Analysis of the Meta-ensemble	33

List of Tables

2.1	Summary of Combination Rule	10
4.1	Confusion Matrix	18
4.2	Basic information of the datasets used	20
4.3	Performance Analysis of J48, NB, and IBK	21
4.4	Performance Analysis of J48	23
4.5	Performance Analysis of NB	25
4.6	Performance Analysis of IBK	26
4.7	Performance Analysis of All The Classifier Ensembles	28
4.8	Performance Analysis Of the Proposed Model	29
4.9	Performance Analysis of The Proposed Ensemble With Existing Ensembles	30
5.1	Performance Analysis of The Meta-ensemble	