

LIST OF TABLES

3.1	Information of Datasets	16
3.2	Parameter Information	28
4.1	Parameter Exploration using the RF Classifier Model	32
4.2	Parameter Exploration using the DT Classifier Model	32
4.3	Average of Each Evaluation Metric using the RF Model	35
4.4	Average of Each Evaluation Metric using the DT Model	35
4.5	Comparison Results of Benchmark Methods based on Gmean Evaluation Metric using KNN Classifier	37
4.6	With and Without Population Adaptation using the model Random Forest	38
4.7	With and Without Population Adaptation using the model Decision Tree .	38
A.1	Distribution of Datasets based on Imbalance Ratio (IR) Ranges	47
A.2	Distribution of Datasets based on Imbalance Ratio (IR) Ranges	47
A.3	Splitting Data	47
A.4	Before vs. After Undersampling on Training Data	50
A.5	Hyperparameter Tuning Results for Number of Population using Random Forest Classifier	53
A.6	Hyperparameter Tuning Results for Portion of Big Males using Random Forest Classifier	55
A.7	Hyperparameter Tuning Results for <i>Mlipir</i> Rate using Random Forest Clas- sifier	58
A.8	Hyperparameter Tuning Results for Number of Population using Decision Tree Classifier	61
A.9	Hyperparameter Tuning Results for Portion of Big Males using Decision Tree Classifier	63
A.10	Hyperparameter Tuning Results for <i>Mlipir</i> Rate using Decision Tree Classifier	66
A.11	Model Performance based on F1-score	69
A.12	Model Performance based on Geometric Mean (Gmean) Score	72
A.13	Model Performance based on Balanced Accuracy Score (BA-Score)	75