



DAFTAR ISI

PERNYATAAN	iii
PRAKATA	iv
ARTI LAMBANG DAN SINGKATAN	vi
ABSTRACT	vii
INTISARI.....	viii
DAFTAR ISI	ix
DAFTAR GAMBAR.....	xiii
DAFTAR TABEL	xiv
BAB I PENDAHULUAN	16
1.1 Latar belakang.....	16
1.2 Perumusan masalah.....	18
1.3 Keaslian Penelitian.....	18
1.4 Tujuan Penelitian	20
1.5 Manfaat Penelitian	21
BAB II TINJAUAN PUSTAKA DAN LANDASAN TEORI	22
2.1 Tinjauan Pustaka	22
2.2 Landasan Teori.....	27
2.2.1 Penyakit Tuberkulosis.....	27
2.2.1.1 <i>Mycrobacterium Tuberculosis</i>	28
2.2.1.2 Sifat –sifat <i>Mycrobacterium tuberculosis</i>	28
2.2.1.3 Penularan kuman tuberkulosis	28
2.2.1.4 Klasifikasi penyakit tuberkulosis.....	29
2.2.2 Diagnosis Tuberkulosis.....	29
2.2.2.1 Gejala Klinis	29
2.2.2.2 Pemeriksaan jasmani.....	30
2.2.2.3 Diagnosis dengan menggunakan Mikroskop.....	31
2.2.2.4 Uji tuberkulin.....	31
2.2.2.5 Pemeriksaan radiologis.....	32
2.2.2.6 Pemeriksaan Bakteriologi.....	33



2.2.3 Data Mining	33
2.2.3.1 Diskretisasi	33
2.2.3.2 Algoritme Klasifikasi	35
2.2.3.2.1 <i>Rules Classifiers</i>	35
2.2.3.2.1.1 Rough Set.....	35
2.2.3.2.1.1.1 Sistem Informasi	35
2.2.3.2.1.1.2 <i>Indiscernibility</i>	36
2.2.3.2.1.1.3 <i>Set Aproximation</i>	37
2.2.3.2.1.1.4 <i>Reduct</i>	38
2.2.3.2.1.1.5 <i>Decision rule generation</i>	40
2.2.3.2.1.2 PART	41
2.2.3.2.2 <i>Bayesian Classifier</i>	42
2.2.3.2.2.1 Naïve Bayes	42
2.2.3.2.2.2 Bayesian Network	42
2.2.3.2.3 <i>Lazy Classifiers</i>	43
2.2.3.2.3.1 IBk	43
2.2.3.2.3.2 K-Star.....	44
2.2.3.2.4 <i>Metalearning Classifiers</i>	44
2.2.3.2.4.1 Bagging.....	44
2.2.3.2.4.2 AdaboostM1.....	45
2.2.3.2.5 <i>Trees Classifiers</i>	46
2.2.3.2.5.1 J48.....	46
2.2.3.2.5.2 REPTree.....	47
2.2.4 Performa klasifikasi	48
2.2.5 Paired t-test.....	49
2.2.6 Random Number Generator (RNG).....	50
2.3 Rangkuman	51
2.4 Pertanyaan Penelitian	52
BAB III METODOLOGI.....	53
3.1 Pendahuluan.....	53
3.1.1 Data set Tubekulosis	53



3.2 Metode	55
3.2.1 Data Preprocessing.....	56
3.2.2 Klasifikasi Data	60
3.2.2.1 <i>Rules Classifiers</i>	61
3.2.2.1.1 RST.....	61
3.2.2.1.2 PART.....	65
3.2.2.2 <i>Bayesian Classifiers</i>	66
3.2.2.2.2 Naive Bayes	66
3.2.2.2.3 Bayesian Network	68
3.2.2.3 <i>Lazy Classifiers</i>	69
3.2.2.3.2 IBk.....	69
3.2.2.3.3 K-Star	71
3.2.2.4 <i>Metalearning Classifiers</i>	72
3.2.2.4.2 Bagging.....	72
3.2.2.4.3 AdaboostM1.....	74
3.2.2.5 <i>Trees Classifiers</i>	75
3.2.2.5.2 J48	75
3.2.2.5.3 REPTree.....	78
3.2.3 Evaluasi Performa.....	79
3.3 Rangkuman	81
BAB IV HASIL DAN PEMBAHASAN	82
4.1 Pendahuluan	82
4.2 Data Preprocessing	82
4.3 Klasifikasi Data.....	84
4.3.1 <i>Rules Classifiers</i>	85
4.3.1.1 RST	85
4.3.1.2 PART.....	88
4.3.2 <i>Bayesian Classifiers</i>	89
4.3.2.1 Naive Bayes	89
4.3.2.2 Bayesian Network.....	90
4.3.3 <i>Lazy Classifiers</i>	90



4.3.3.1 IBK.....	90
4.3.3.2 K-Star	90
4.3.4 <i>Metalearning Classifiers</i>	91
4.3.4.1 Bagging.....	91
4.3.4.2 AdaboostM1	91
4.3.5 <i>Trees Classifiers</i>	92
4.3.5.1 J48	92
4.3.5.2 REPTree	93
4.4 Evaluasi Performa	94
4.5 Rangkuman	97
BAB V KESIMPULAN DAN SARAN.....	99
5.1 Kesimpulan	99
5.2 Saran	100
DAFTAR PUSTAKA	101
LAMPIRAN	L-I