

DAFTAR ISI

ABSTRAK	iii
<i>ABSTRACT</i>	iv
LEMBAR PENGESAHAN	v
LEMBAR PERNYATAAN ORISINALITAS	vi
KATA PENGANTAR	vii
DAFTAR ISI.....	viii
DAFTAR GAMBAR	xii
DAFTAR TABEL.....	xii
DAFTAR LAMPIRAN.....	xiii
DAFTAR SIMBOL.....	xiv
DAFTAR ISTILAH	xv
Bab I PENDAHULUAN.....	1
I.1 Latar Belakang	1
I.2 Perumusan Masalah.....	3
I.3 Tujuan Penelitian.....	3
I.4 Batasan Penelitian	4
I.5 Manfaat Penelitian.....	4
I.6 Metodologi Penelitian	4
Bab II TINJAUAN PUSTAKA.....	6
II.1 Penelitian Terdahulu.....	6
II.2 Dasar Teori	11
II.2.1 Penyakit Umum.....	11
II.2.2 Data Mining	11
II.2.3 CRISP-DM.....	12

II.2.4	Klasifikasi	12
II.2.5	Decision Tree	13
II.2.6	C4.5	14
II.2.7	CART	15
II.2.8	Random Over Under Sampling.....	16
II.2.9	Feature Selection.....	16
II.2.10	Hyperparameter.....	17
II.2.11	Sequential Searching.....	18
II.2.12	Confusion Matrix	18
II.2.13	Cross Validation.....	20
II.2.14	Sistem Diagnosis	20
Bab III	METODOLOGI PENELITIAN	22
III.1	Metode yang Digunakan	22
III.1.1	Business Understanding.....	23
III.1.2	Data Understanding.....	23
III.1.3	Data Preparation.....	24
III.1.4	Modeling	25
III.1.5	Evaluation and Result	26
III.1.6	Deployment.....	29
III.2	Alat dan Bahan Penelitian	30
III.2.1	Google Colab	30
III.2.2	Visual Studio Code	30
III.2.3	Python	30
III.3	Prosedur Penelitian.....	31
III.3.1	Identifikasi Masalah	32
III.3.2	Studi Literatur	32

III.3.3	CRISP-DM.....	32
III.3.4	Penyusunan Buku TA	32
III.4	Jadwal Pelaksanaan	33
Bab IV	ANALISIS DAN PERANCANGAN	34
IV.1	Business Understanding	34
IV.2	Data Understanding	35
IV.3	Data Preparation	37
IV.3.1	Data Cleaning.....	37
IV.3.2	Normalisasi Bahasa	41
IV.3.3	Random Over Under Sampling.....	41
IV.3.4	Transformasi Data.....	42
IV.3.5	Dataset Akhir	44
IV.4	Modeling	44
IV.4.1	Mencari Split Data Terbaik.....	42
IV.4.2	Distribusi Data	42
IV.4.3	Feature Selection.....	44
IV.4.4	Hyperparameter.....	45
IV.4.5	Perbandingan Model C4.5 dan CART	47
IV.5	Evaluation and Result.....	52
IV.5.1	Cross Validation C4.5	53
IV.5.2	Cross Validation CART	54
IV.6	Deployment	55
Bab V	KESIMPULAN DAN SARAN	59
V.1	Kesimpulan.....	59
V.2	Saran	60
	DAFTAR PUSTAKA	62