# DAFTAR ISI

HALAMAN SAMPUL [romawi]

HALAMAN JUDUL [romawi]

HALAMAN PERNYATAAN ORISINALITAS [romawi]

ABSTRAK [romawi]

KATA PENGANTAR [romawi]

DAFTAR ISI [romawi]

DAFTAR TABEL [romawi]

DAFTAR GAMBAR [romawi]

DAFTAR LAMPIRAN [romawi]

BAB 1 PENDAHULUAN 1

1.1 Latar Belakang 1

1.2 Rumusan Masalah 3

1.3 Ruang Lingkup 4

1.4 Tujuan dan Manfaat 4

1.4.1 Tujuan 4

1.4.2 Manfaat 5

1.5 Metode Penelitian 5

1.5.1 Metode Pengumpulan Data 5

1.5.2 Metode Perancangan Sistem 6

1.5.3 Metode Evaluasi 6

1.6 Sistematika Penulisan 7

BAB 2 TINJAUAN PUSTAKA 9

2.1 Landasan Teori 9

2.1.1 Algoritma 9

2.1.2 *Artificial Intelligence* 10

2.1.3 *Natural Language Processing* (NLP) 10

2.1.4 *Machine Learning* 12

2.1.4.1 Pengertian *Machine Learning* 12

2.1.4.2 Algoritma *Machine Learning* 14

2.1.4.2.1 *Support Vector Machine* 14

2.1.4.2.2 Naïve Bayes 16

2.1.4.2.3 *Logistic Regression* 17

2.1.4.2.4 *Gradient Boosting* 19

2.1.4.2.5 *Linear Discriminant Analysis* 19

2.1.4.3 *Library Machine Learning* 20

2.1.4.3.1 Scikit-learn 20

2.1.4.3.2 NumPy 20

2.1.4.3.3 Pandas 21

2.1.4.3.4 Imbalanced-Learn 21

2.1.4.3.5 NLTK (*Natural Language Toolkit*) 21

2.1.5 *Deep Learning* 22

2.1.5.1 Pengertian *Deep Learning* 22

2.1.5.2 Arsitektur *Deep Learning* 23

2.1.5.2.1 MLP (*Multilayer Perceptron*) 23

2.1.5.2.2 CNN (*Convolutional Neural Network*) 25

2.1.5.2.3 LSTM (*Long Short-Term Memory*) 26

2.1.5.2.4 GRU (*Gated Recurrent Unit*) 27

2.1.5.3 *Library Deep Learning* 28

2.1.5.3.1 Keras 28

2.1.5.3.2 Theano 28

2.1.6 MyPersonality 29

2.1.7 Resampling 29

2.1.8 Python 30

2.1.9 Eclipse IDE 31

2.1.10 Notepad++ 31

2.1.11 Microsoft Excel 2010 32

2.1.12 XAMPP 32

2.1.13 Apache HTTP Server 32

2.1.14 Web Service 32

2.1.15 The Big Five Traits 36

2.1.16 LIWC 38

2.1.17 SPLICE 40

2.2 Penelitian Terkait 41

2.2.1 Personality and Patterns of Facebook Usage 41

2.2.2 Recognising Personality Traits Using Facebook Status Updates 46

2.2.3 Personality, Gender, and Age in the Language of Social Media:

The Open-Vocabulary Approach 50

2.2.4 Sistem Prediksi Kepribadian “The Big Five Traits” Dari Data

Twitter 56

2.2.5 Personality Prediction Based on Twitter Information in Bahasa 59

2.2.6 Personality Traits Recognition on Social Network - Facebook 64

2.2.7 Deep Learning-Based Document Modeling for Personality Detection

from Text 67

BAB 3 METODOLOGI 69

3.1 Analisis Masalah 69

3.2 Usulan Pemecahan Masalah 70

3.3 Kerangka Berpikir 71

3.3.1 Dataset Collecting 72

3.3.2 Dataset Preprocessing 77

3.3.3 Feature Selection 83

3.3.4 Model Learning Process 97

3.3.5 Prediction Model Testing 99

3.3.6 Final Result of Prediction Based on Big Five Model 100

3.4 Rancangan Layar 100

3.4.1 Rancangan Layar Homepage 101

3.4.2 Rancangan Layar Privacy Policy 101

3.4.3 Rancangan Layar Result 102

BAB 4 HASIL PENELITIAN [angka]

4.1 Testing Environment [angka]

4.1.1 Spesifikasi Sistem [angka]

4.1.2 Perangkat Lunak [angka]

4.1.3 Library [angka]

4.2 Hasil [angka]

4.2.1 Distribusi Data [angka]

4.2.2 Faktor Skenario Percobaan [angka]

4.2.3 Implementasi Machine Learning [angka]

4.2.4 Implementasi Deep Learning [angka]

4.2.5 Tampilan Layar Aplikasi [angka]

4.3 Evaluasi [angka]

4.3.1 Evaluasi Subjektif [angka]

4.3.2 Evaluasi Objektif [angka]

BAB 5 SIMPULAN DAN SARAN [angka]

5.1 Simpulan [angka]

5.2 Saran [angka]

REFERENSI [angka]

LAMPIRAN-LAMPIRAN L[angka]

RIWAYAT HIDUP

SURAT SURVEI