

DAFTAR ISI

LEMBAR PERSETUJUAN	i
LEMBAR PENGESAHAN	ii
SURAT PERNYATAAN KARYA SENDIRI	iii
LEMBAR PERSEMBAHAN	iv
ABSTRAK	v
<i>ABSTRACT</i>	vi
KATA PENGANTAR.....	vii
DAFTAR ISI.....	viii
DAFTAR GAMBAR.....	x
DAFTAR TABEL.....	xi
BAB I PENDAHULUAN	1
1.1 Latar Belakang Penelitian.....	1
1.2 Rumusan Masalah Penelitian.....	3
1.3 Tujuan Penelitian.....	3
1.4 Batasan Masalah Penelitian.....	3
1.5 Manfaat.....	4
1.6 Kerangka Pemikiran	5
1.7 Sistematika Penulisan	7
BAB II KAJIAN TEORI	8
2.1 Tinjauan Pustaka.....	8
2.2 Landasan Teori	10
2.2.1 <i>Artificial Intelligence of Things (AIoT)</i>	10
2.2.2 <i>Deep Learning</i>	11
2.2.3 <i>Recurrent Neural Network (RNN)</i>	12
2.2.4 <i>Long Short-Term Memory (LSTM)</i>	13
2.2.5 <i>Global Positioning System (GPS)</i>	14
2.2.6 <i>Microcontroller</i>	14
2.2.7 Bahasa Pemrograman C++	15
2.2.8 <i>Arduino IDE</i>	16
2.2.9 <i>Nest Js</i>	17

2.2.10 MySQL Database	17
2.2.11 Flask.....	18
2.2.12 React Js	19
2.2.13 Leaflet Js	20
2.2.14 Cross-Industry Standard Process for Data Mining (CRISP-DM)...	21
2.2.15 Prototyping	23
BAB III METODOLOGI PENELITIAN	24
3.1 Bussines Understanding	24
3.2 Data Understanding	26
3.3 Data Preparation.....	27
3.4 Modeling.....	28
3.5 Evaluation.....	29
3.6 Deployment.....	29
BAB IV HASIL DAN PEMBAHASAN.....	43
4.1 Hasil.....	43
4.1.1 Bussines Understanding.....	43
4.1.2 Data Understanding.....	44
4.1.3 Data Preparation	49
4.1.4 Modeling.....	51
4.1.5 Evaluation	53
4.1.6 Deployment.....	55
4.2 Pembahasan	63
4.2.1 Pembahasan Rumusan Masalah 1	63
4.2.2 Pembahasan Rumusan Masalah 2	63
BAB V SIMPULAN DAN SARAN	65
5.1 Simpulan.....	65
5.2 Saran	65
DAFTAR PUSTAKA	67
LAMPIRAN.....	71