

DAFTAR ISI

| | |
|--------------------------------------------------|-----------|
| LEMBAR PERNYATAAN ORISINALITAS | 3 |
| ABSTRAK | 4 |
| <i>ABSTRACT</i> | 5 |
| KATA PENGANTAR..... | 6 |
| UCAPAN TERIMA KASIH | 7 |
| DAFTAR ISI..... | 9 |
| DAFTAR GAMBAR..... | 11 |
| DAFTAR TABEL | 12 |
| BAB I PENDAHULUAN..... | 13 |
| 1.1 Latar Belakang Masalah | 13 |
| 1.2 Rumusan Masalah | 14 |
| 1.3 Tujuan dan Manfaat..... | 15 |
| 1.4 Batasan Masalah..... | 15 |
| 1.5 Metode Penelitian | 15 |
| 1.6 Sistematika Penulisan..... | 16 |
| BAB II TINJAUAN PUSTAKA..... | 18 |
| 2.1 Jantung | 18 |
| 2.2 <i>Elektrokardiogram</i> | 19 |
| 2.3 <i>Obstructive Sleep Apnea</i> | 20 |
| 2.4 <i>Deep Learning</i> | 21 |
| 2.5 <i>Artificial Neural Network (ANN)</i> | 22 |
| 2.5.1 Max Pooling..... | 24 |
| 2.6 <i>Confusion Matrix</i> | 24 |
| 2.6.1 <i>Akurasi</i> | 25 |
| 2.6.2 <i>Presisi</i> | 25 |
| 2.6.3 <i>Recall</i> | 25 |
| 2.6.4 <i>F1-score</i> | 26 |
| BAB III PERANCANGAN SISTEM | 27 |
| 3.1 Perancangan Sistem..... | 27 |
| 3.1.1 Datasets Sinyal EKG..... | 28 |

| | |
|-----------------------------------------|-----------|
| 3.1.2 Klasifikasi ANN..... | 28 |
| 3.2 Parameter Pengujian Sistem | 29 |
| BAB IV HASIL DAN ANALISIS | 30 |
| 4.1 Uji Model 1 ANN | 30 |
| 4.2 Uji Model 2 ANN | 35 |
| 4.3 Uji Model 3 ANN | 40 |
| 4.4 Hasil Analisis..... | 45 |
| BAB V KESIMPULAN DAN SARAN | 46 |
| 5.1 Kesimpulan..... | 46 |
| 5.2 Saran..... | 46 |
| LAMPIRAN..... | 48 |
| DAFTAR PUSTAKA..... | 52 |