

## DAFTAR ISI

|                                                             |      |
|-------------------------------------------------------------|------|
| LEMBAR PERSETUJUAN .....                                    | i    |
| LEMBAR PERNYATAAN KARYA SENDIRI .....                       | iii  |
| MOTTO DAN PERSEMBAHAN .....                                 | iv   |
| ABSTRAK.....                                                | v    |
| KATA PENGANTAR .....                                        | vii  |
| DAFTAR ISI.....                                             | ix   |
| DAFTAR GAMBAR .....                                         | xi   |
| DAFTAR TABEL .....                                          | xii  |
| DAFTAR KODE.....                                            | xiii |
| BAB I.....                                                  | 1    |
| PENDAHULUAN .....                                           | 1    |
| 1.1    Latar Belakang.....                                  | 1    |
| 1.2    Rumusan Masalah .....                                | 4    |
| 1.3    Tujuan Penelitian.....                               | 4    |
| 1.4    Manfaat Penelitian.....                              | 4    |
| 1.5    Batasan Masalah.....                                 | 5    |
| 1.6    Kerangka Pemikiran .....                             | 5    |
| 1.7    Sitematika Penulisan.....                            | 7    |
| BAB II.....                                                 | 8    |
| KAJIAN LITERATUR .....                                      | 8    |
| 2.1    Tinjauan Pustaka.....                                | 8    |
| 2.2    Landasan Teori .....                                 | 12   |
| 2.2.1    Penyakit Telinga Kucing .....                      | 12   |
| 2.2.2    Citra.....                                         | 14   |
| 2.2.3 <i>Artificial Intelegence</i> .....                   | 15   |
| 2.2.4    Pengolahan Citra ( <i>Image Processing</i> ) ..... | 15   |
| 2.2.3 <i>Deep Learning</i> .....                            | 16   |
| 2.2.1    Confusion Matrix .....                             | 24   |
| BAB III .....                                               | 27   |
| METODOLOGI PENELITIAN.....                                  | 27   |
| 3.1    Busines Understanding.....                           | 28   |
| 3.2    Data Understanding .....                             | 28   |
| 3.3    Data Preparation .....                               | 29   |

|                           |                           |    |
|---------------------------|---------------------------|----|
| 3.3.1                     | Pembersihan Data.....     | 29 |
| 3.3.2                     | Pelabelan Data.....       | 29 |
| 3.3.3                     | Resize .....              | 30 |
| 3.3.4                     | Integrasi Data .....      | 30 |
| 3.3.5                     | Transformasi Data .....   | 32 |
| 3.3.6                     | Pembagian Data .....      | 33 |
| 3.3.7                     | Normalisasi Data.....     | 34 |
| 3.4                       | Modeling.....             | 35 |
| 3.4.1                     | Konfigurasi Model .....   | 35 |
| 3.4.2                     | Komfilasi Model .....     | 36 |
| 3.4.3                     | Pelatihan Model .....     | 37 |
| 3.4.4                     | Pengujian Model .....     | 38 |
| 3.5                       | <i>Evaluation</i> .....   | 39 |
| BAB IV .....              |                           | 41 |
| HASIL DAN PEMBAHASAN..... |                           | 41 |
| 4.1                       | Evaluasi .....            | 41 |
| 4.2                       | Hasil Training .....      | 42 |
| 4.2.1                     | Training 1 .....          | 42 |
| 4.2.2                     | Training 2 .....          | 43 |
| 4.2.3                     | Training 3 .....          | 45 |
| 4.3                       | Pengujian Data Test ..... | 47 |
| 4.2                       | Hasil Prediksi.....       | 55 |
| 4.2.1                     | Prediksi Pengujian 1..... | 55 |
| 4.2.2                     | Prediksi Pengujian 2..... | 56 |
| 4.2.3                     | Prediksi Pengujian 3..... | 57 |
| BAB V .....               |                           | 59 |
| KESIMPULAN DAN SARAN..... |                           | 59 |
| 5.1                       | Kesimpulan.....           | 59 |
| 5.2                       | Saran.....                | 59 |
| DAFTAR PUSTAKA.....       |                           | 60 |
| RIWAYAT HIDUP .....       |                           | 65 |