

## DAFTAR ISI

<b>LEMBAR PERSETUJUAN</b> .....	Error! Bookmark not defined.
<b>LEMBAR PENGESAHAN</b> .....	Error! Bookmark not defined.
<b>LEMBAR PERNYATAAN</b> .....	Error! Bookmark not defined.
<b>KATA PENGANTAR</b> .....	Error! Bookmark not defined.
<b>ABSTRAK</b> .....	Error! Bookmark not defined.
<b>ABSTRACT</b> .....	Error! Bookmark not defined.
<b>DAFTAR ISI</b> .....	<b>vii</b>
<b>DAFTAR TABEL</b> .....	<b>ix</b>
<b>DAFTAR GAMBAR</b> .....	<b>x</b>
<b>DAFTAR LAMPIRAN</b> .....	<b>xi</b>
<b>BAB I PENDAHULUAN</b> .....	Error! Bookmark not defined.
1.1 Latar Belakang.....	<b>Error! Bookmark not defined.</b>
1.2 Rumusan Masalah .....	<b>Error! Bookmark not defined.</b>
1.3 Tujuan Penelitian.....	<b>Error! Bookmark not defined.</b>
1.4 Manfaat.....	<b>Error! Bookmark not defined.</b>
<b>BAB II TINJAUAN PUSTAKA</b> .....	Error! Bookmark not defined.
2.1 Persediaan Barang .....	<b>Error! Bookmark not defined.</b>
2.2 Deteksi Objek .....	<b>Error! Bookmark not defined.</b>
2.3 Tantangan Deteksi Kardus .....	<b>Error! Bookmark not defined.</b>
2.4 Mask R-CNN.....	<b>Error! Bookmark not defined.</b>
2.5 MobileNetV3.....	<b>Error! Bookmark not defined.</b>
2.6 Optimizer <i>SGD</i> .....	<b>Error! Bookmark not defined.</b>
2.7 Penelitian Terkait.....	<b>Error! Bookmark not defined.</b>
<b>BAB III METODE PENELITIAN</b> .....	Error! Bookmark not defined.
3.1 Objek Penelitian .....	<b>Error! Bookmark not defined.</b>
3.2 Prosedur Penelitian.....	<b>Error! Bookmark not defined.</b>
3.2.1 Studi Literatur .....	<b>Error! Bookmark not defined.</b>
3.2.2 Pengumpulan dan Pengolahan Data.....	<b>Error! Bookmark not defined.</b>
3.2.3 Modifikasi Mask R-CNN dengan MobileNetV3 ..	<b>Error! Bookmark not defined.</b>
3.2.4 Pelatihan Model .....	<b>Error! Bookmark not defined.</b>

3.2.5	Validasi Model .....	<b>Error! Bookmark not defined.</b>
3.2.6	Analisis.....	<b>Error! Bookmark not defined.</b>
<b>BAB IV HASIL DAN PEMBAHASAN .....</b>		<b>Error! Bookmark not defined.</b>
4.1	Hasil Pengumpulan dan Pengolahan Data.....	<b>Error! Bookmark not defined.</b>
4.2	Proses Modifikasi Mask R-CNN dengan MobileNetV3 .....	<b>Error! Bookmark not defined.</b>
4.2.1	Integrasi Backbone MobileNetV3 Small .....	<b>Error! Bookmark not defined.</b>
4.2.2	Penyesuaian Hyperparameter.....	<b>Error! Bookmark not defined.</b>
4.3	Hasil Pelatihan Model .....	<b>Error! Bookmark not defined.</b>
4.4	Hasil Validasi Model.....	<b>Error! Bookmark not defined.</b>
4.4.1	Hasil Confusion Matrix.....	<b>Error! Bookmark not defined.</b>
4.4.2	Perbandingan Evaluasi <i>Bouding Box</i> .....	<b>Error! Bookmark not defined.</b>
4.4.3	Perbandingan Evaluasi Segmentasi..	<b>Error! Bookmark not defined.</b>
4.4.4	Perbandingan Evaluasi per Kategori	<b>Error! Bookmark not defined.</b>
4.4.5	Perbandingan Parameter dan Ukuran Model .	<b>Error! Bookmark not defined.</b>
4.4.6	Pengujian Langsung .....	<b>Error! Bookmark not defined.</b>
4.4.7	Perbandingan <i>FPS</i> .....	<b>Error! Bookmark not defined.</b>
4.5	Analisis Hasil .....	<b>Error! Bookmark not defined.</b>
<b>BAB V PENUTUP.....</b>		<b>Error! Bookmark not defined.</b>
5.1	Kesimpulan.....	<b>Error! Bookmark not defined.</b>
5.1	Saran .....	<b>Error! Bookmark not defined.</b>
<b>DAFTAR PUSTAKA .....</b>		<b>Error! Bookmark not defined.</b>
<b>LAMPIRAN.....</b>		<b>Error! Bookmark not defined.</b>

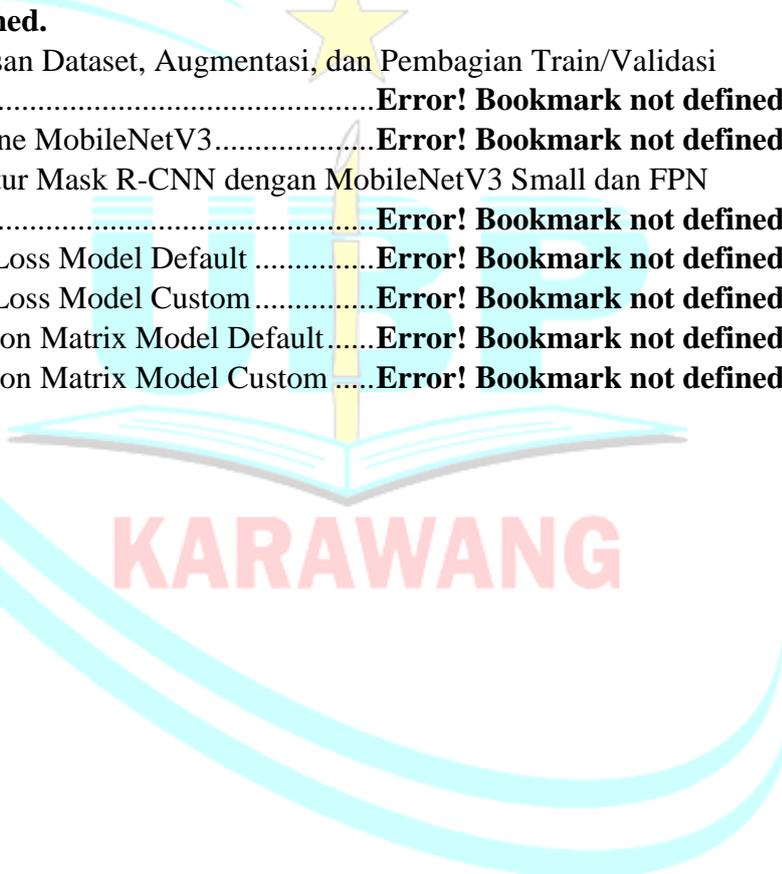
## DAFTAR TABEL

- Tabel 2. 1 Tabel Penelitian Terkait.....**Error! Bookmark not defined.**  
Tabel 3. 1 Waktu Penelitian.....**Error! Bookmark not defined.**  
Tabel 4. 1 Jumlah *instance* objek berdasarkan kategori ..... **Error! Bookmark not defined.**  
Tabel 4. 2 Perbandingan Evaluasi Bouding Box ...**Error! Bookmark not defined.**  
Tabel 4. 3 Perbandingan Evaluasi Segmentasi .....**Error! Bookmark not defined.**  
Tabel 4. 4 Perbandingan Evaluasi per Kategori.....**Error! Bookmark not defined.**  
Tabel 4. 5 Perbandingan Parameter dan Ukuran Model ..... **Error! Bookmark not defined.**  
Tabel 4. 6 Tabel hasil pengujian langsung .....**Error! Bookmark not defined.**  
Tabel 4. 7 Perbandingan FPS .....**Error! Bookmark not defined.**



## DAFTAR GAMBAR

Gambar 2. 1 Penerapan Deteksi Objek .....	<b>Error! Bookmark not defined.</b>
Gambar 2. 2 Proses Kerja Mask R-CNN .....	<b>Error! Bookmark not defined.</b>
Gambar 2. 3 Komponen Utama Mask R-CNN .....	<b>Error! Bookmark not defined.</b>
Gambar 2. 4 Arsitektur MobileNetV3 .....	<b>Error! Bookmark not defined.</b>
Gambar 3. 1 Objek Penelitian .....	<b>Error! Bookmark not defined.</b>
Gambar 3. 2 Prosedur Penelitian.....	<b>Error! Bookmark not defined.</b>
Gambar 3. 3 Pengambilan Gambar Kardus.....	<b>Error! Bookmark not defined.</b>
Gambar 3. 4 Anotasi pada Roboflow .....	<b>Error! Bookmark not defined.</b>
Gambar 4. 1 Proses pengumpulan dataset.....	<b>Error! Bookmark not defined.</b>
Gambar 4. 2 Proses Anotasi Kardus dengan Segmentasi di Roboflow .....	<b>Error! Bookmark not defined.</b>
<b>Bookmark not defined.</b>	
Gambar 4. 3 Ringkasan Dataset, Augmentasi, dan Pembagian Train/Validasi .....	<b>Error! Bookmark not defined.</b>
Gambar 4. 4 Backbone MobileNetV3.....	<b>Error! Bookmark not defined.</b>
Gambar 4. 5 Arsitektur Mask R-CNN dengan MobileNetV3 Small dan FPN .....	<b>Error! Bookmark not defined.</b>
Gambar 4. 6 Grafik Loss Model Default .....	<b>Error! Bookmark not defined.</b>
Gambar 4. 7 Grafik Loss Model Custom .....	<b>Error! Bookmark not defined.</b>
Gambar 4. 8 Confusion Matrix Model Default.....	<b>Error! Bookmark not defined.</b>
Gambar 4. 9 Confusion Matrix Model Custom .....	<b>Error! Bookmark not defined.</b>



KARAWANG

## DAFTAR LAMPIRAN

- Lampiran 1 Lembar Bimbingan Proposal Tugas Akhir..... **Error! Bookmark not defined.**
- Lampiran 2 Lembar Bimbingan Laporan Tugas Akhir..... **Error! Bookmark not defined.**
- Lampiran 3 Lembar Ceklist SKPI.....**Error! Bookmark not defined.**
- Lampiran 4 Lembar Pendaftaran Sidang Tugas Akhir ..... **Error! Bookmark not defined.**
- Lampiran 5 Lembar Perbaikan Ketua Penguji .....**Error! Bookmark not defined.**
- Lampiran 6 Lembar Perbaikan Anggota Penguji I**Error! Bookmark not defined.**
- Lampiran 7 Lembar Perbaikan Anggota Penguji II ..... **Error! Bookmark not defined.**
- Lampiran 8 Kode Full Modifikasi.....**Error! Bookmark not defined.**

