

DAFTAR ISI

HALAMAN PENGESAHAN	Error! Bookmark not defined.
HALAMAN PERSEMBAHAN	Error! Bookmark not defined.
KATA PENGANTAR	Error! Bookmark not defined.
DAFTAR ISI.....	1
DAFTAR TABEL.....	Error! Bookmark not defined.
DAFTAR GAMBAR	Error! Bookmark not defined.
DAFTAR SINGKATAN	Error! Bookmark not defined.
INTISARI	Error! Bookmark not defined.
ABSTRACT.....	Error! Bookmark not defined.
BAB I PENDAHULUAN.....	Error! Bookmark not defined.
1.1 Latar Belakang	Error! Bookmark not defined.
1.2 Rumusan Masalah	Error! Bookmark not defined.
1.3 Batasan Tugas akhir	Error! Bookmark not defined.
1.4 Tujuan Tugas akhir.....	Error! Bookmark not defined.
1.5 Manfaat Tugas akhir.....	Error! Bookmark not defined.
1.6 Sistematika Penulisan.....	Error! Bookmark not defined.
BAB II DASAR TEORI	Error! Bookmark not defined.
2.1 Internet of Things (IoT).....	Error! Bookmark not defined.
2.2 Artificial Intelligence	Error! Bookmark not defined.
2.3 Machine Learning	Error! Bookmark not defined.
2.4 Deep Learning	Error! Bookmark not defined.
2.5 Convolutional Neural Network (CNN)	Error! Bookmark not defined.
2.6 Pengembangan Convolutional Neural Network (CNN)	Error! Bookmark not defined.

defined.

2.6.1 Faster Region-based Convolutional Neural Network (Faster R-CNN) **Error!**

Bookmark not defined.

2.6.2 Single Shot Detector (SSD) **Error! Bookmark not defined.**

2.7 TensorFlow..... **Error! Bookmark not defined.**

2.8 Model deteksi MobileNet dan ResidualNet-101 (ResNet) **Error! Bookmark not defined.**

2.9 Extensible Markup Language (XML) **Error! Bookmark not defined.**

2.10 Protocol Buffer **Error! Bookmark not defined.**

BAB III METODE TUGAS AKHIR..... **Error! Bookmark not defined.**

3.1 Alat dan Bahan Tugas akhir **Error! Bookmark not defined.**

3.1.1 Alat Tugas akhir..... **Error! Bookmark not defined.**

3.1.2 Bahan Tugas akhir **Error! Bookmark not defined.**

3.2 Alur Tugas akhir..... **Error! Bookmark not defined.**

3.3 Pembuatan Dataset **Error! Bookmark not defined.**

3.3.1 Diagram Alir program Pengambilan Citra.. **Error! Bookmark not defined.**

3.3.2 Perancangan Program Pengambilan Citra .. **Error! Bookmark not defined.**

3.4 Mempersiapkan kebutuhan *re-train* model deteksi **Error! Bookmark not defined.**

3.4.1 File anotasi dataset gambar **Error! Bookmark not defined.**

3.4.2 File label map..... **Error! Bookmark not defined.**

3.4.3 File daftar nama gambar pada dataset..... **Error! Bookmark not defined.**

3.4.4 Model deteksi..... **Error! Bookmark not defined.**

3.4.5 Konfigurasi training pipeline model deteksi **Error! Bookmark not defined.**

3.4.6 Protocol Buffer dan Protocol Buffer Compiler **Error! Bookmark not defined.**

3.4.7 TensorFlow Record..... **Error! Bookmark not defined.**

3.5 Re-train Model deteksi **Error! Bookmark not defined.**

3.6 Ekstraksi Inference graph dari model deteksi **Error! Bookmark not defined.**

3.7 Perancangan Program Deteksi Objek..... **Error! Bookmark not defined.**

3.7.1 Diagram Alir Program Deteksi **Error! Bookmark not defined.**

3.7.2	Pemanggilan Library & Modul	Error! Bookmark not defined.
3.7.3	Inisialisasi Variabel	Error! Bookmark not defined.
3.7.4	Ekstraksi Label Map	Error! Bookmark not defined.
3.7.5	Pemuatan model deteksi (<i>Inference graph</i>)	Error! Bookmark not defined.
3.7.6	Proses pengenalan objek	Error! Bookmark not defined.
3.7.7	Visualisasi Deteksi	Error! Bookmark not defined.
3.7.8	Pengolahan data yang akan dikirim ke database	Error! Bookmark not defined.
3.7.9	Pengiriman data label ke database	Error! Bookmark not defined.
BAB IV HASIL DAN PEMBAHASAN		Error! Bookmark not defined.
4.1	Pengujian Model Deteksi	Error! Bookmark not defined.
4.2	Analisis Parameter <i>Total Loss</i> dan durasi <i>training</i> model deteksi	Error! Bookmark not defined.
4.3	Analisis Akurasi dan <i>Frame Rate</i> Model Deteksi pada Program Deteksi	Error! Bookmark not defined.
4.4	Evaluasi Model Deteksi	Error! Bookmark not defined.
4.5	Evaluasi Sistem Deteksi Objek	Error! Bookmark not defined.
BAB V KESIMPULAN DAN SARAN		Error! Bookmark not defined.
5.1	Kesimpulan	Error! Bookmark not defined.
5.2	Saran	Error! Bookmark not defined.
DAFTAR PUSTAKA		Error! Bookmark not defined.