

DAFTAR ISI

LEMBAR PERSETUJUAN	Error! Bookmark not defined.
LEMBAR PENGESAHAN	Error! Bookmark not defined.
LEMBAR PERNYATAAN	Error! Bookmark not defined.
KATA PENGANTAR.....	Error! Bookmark not defined.
ABSTRAK	Error! Bookmark not defined.
<i>ABSTRACT</i>	Error! Bookmark not defined.
DAFTAR ISI.....	vii
DAFTAR TABEL	ix
DAFTAR GAMBAR.....	x
DAFTAR LAMPIRAN	xi
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 Tujuan Penelitian	Error! Bookmark not defined.
1.4 Manfaat	Error! Bookmark not defined.
BAB II TINJAUAN PUSTAKA.....	Error! Bookmark not defined.
2.1. Prensensi.....	Error! Bookmark not defined.
2.2. Karyawan	Error! Bookmark not defined.
2.3. Pengolahan Citra	Error! Bookmark not defined.
2.4. Convolutional Neural Network	Error! Bookmark not defined.
2.4.1. <i>Input</i>	Error! Bookmark not defined.
2.4.2. <i>Convolutional Layer</i>	Error! Bookmark not defined.
2.4.3. <i>Rectification Linear Unit (ReLU)</i> ..	Error! Bookmark not defined.
2.4.4. <i>Pooling Layer</i>	Error! Bookmark not defined.
2.4.5. <i>Fully Connected Layer</i>	Error! Bookmark not defined.
2.4.6. <i>Softmax</i>	Error! Bookmark not defined.
2.5. <i>You Only Look Once (YOLO)</i>	Error! Bookmark not defined.
2.5.1. <i>Backbone</i>	Error! Bookmark not defined.
2.5.2. <i>Neck</i>	Error! Bookmark not defined.
2.5.3. <i>Head</i>	Error! Bookmark not defined.
2.6. PyTorch	Error! Bookmark not defined.
2.7. Google Collaboratory	Error! Bookmark not defined.

2.8.	<i>Confusion Matriks</i>	Error! Bookmark not defined.
2.9.	<i>Intersection of Union</i>	Error! Bookmark not defined.
2.10.	<i>Recall</i>	Error! Bookmark not defined.
2.11.	<i>F-Measure</i>	Error! Bookmark not defined.
2.12.	<i>Precision</i>	Error! Bookmark not defined.
2.12.	Penelitian Terkait	Error! Bookmark not defined.
BAB III METODE PENELITIAN		Error! Bookmark not defined.
3.1	Objek Penelitian	Error! Bookmark not defined.
3.2.	Prosedur Penelitian	Error! Bookmark not defined.
3.2.1.	Pengumpulan Data.....	Error! Bookmark not defined.
3.2.2.	Pembuatan Model YOLO v5	Error! Bookmark not defined.
1.	Pembuatan Label	Error! Bookmark not defined.
2.	Pembuatan Struktur Folder.....	Error! Bookmark not defined.
3.	Melatih Model.....	Error! Bookmark not defined.
3.2.3.	Implementasi Sistem	Error! Bookmark not defined.
3.2.4.	Pengujian Sistem	Error! Bookmark not defined.
BAB IV HASIL DAN PEMBAHASAN		Error! Bookmark not defined.
4.1.	Hasil Pengumpulan Data	Error! Bookmark not defined.
4.2.	Hasil Pembuatan Model YOLOv5	Error! Bookmark not defined.
4.2.1.	Hasil Proses Labeling.....	Error! Bookmark not defined.
4.2.2.	Hasil Pembuatan Struktur Folder.....	Error! Bookmark not defined.
4.2.3.	Hasil <i>Training</i> Model	Error! Bookmark not defined.
4.3.	Hasil Implementasi Sistem	Error! Bookmark not defined.
4.4.	Hasil Pengujian Sistem	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.
LAMPIRAN		Error! Bookmark not defined.
RIWAYAT PENULIS		Error! Bookmark not defined.

DAFTAR TABEL

Table 1 Penelitian terkait.....**Error! Bookmark not defined.**

Tabel 3. 1 Tabel Penelitian.....**Error! Bookmark not defined.**

Tabel 4. 1 Hasil Pengujian Sistem.....**Error! Bookmark not defined.**



DAFTAR GAMBAR

Gambar 2. 1	Arsitektur CNN.....	Error! Bookmark not defined.
Gambar 2. 2	Operasi Konvolusi	Error! Bookmark not defined.
Gambar 2. 3	Rectification Linear Unit	Error! Bookmark not defined.
Gambar 2. 4	Pooling Layer	Error! Bookmark not defined.
Gambar 2. 5	Fully Connected Layer	Error! Bookmark not defined.
Gambar 2. 6	Arsitektur YOLOv5	Error! Bookmark not defined.
Gambar 2. 7	Google Collabrity	Error! Bookmark not defined.
Gambar 2. 8	Confusion Matriks Sumber : Narkhede (2018)	Error! Bookmark not defined.
Gambar 2. 9	Intersection of Union	Error! Bookmark not defined.
Gambar 2. 10	Persamaan Intercection of Union...	Error! Bookmark not defined.
Gambar 3. 1	Prosedur penelitian	Error! Bookmark not defined.
Gambar 3. 2	Pembuatan model YOLOv5	Error! Bookmark not defined.
Gambar 3. 3	Makesenses.ai	Error! Bookmark not defined.
Gambar 3. 4	Pembuatan Struktur Folder	Error! Bookmark not defined.
Gambar 3. 5	Varian Model YOLOv5	Error! Bookmark not defined.
Gambar 3. 6	Arsitektur YOLOv5s	Error! Bookmark not defined.
Gambar 3. 7	kode output train	Error! Bookmark not defined.
Gambar 3. 8	Usecase Diagram	Error! Bookmark not defined.
Gambar 3. 9	Activity Diagram	Error! Bookmark not defined.
Gambar 3. 10	Tampilan Kehadiran Karyawan	Error! Bookmark not defined.
Gambar 3. 11	Tampilan Laporan Kehadiran	Error! Bookmark not defined.
Gambar 4. 1	Hasil Pengumpulan Data	Error! Bookmark not defined.
Gambar 4. 2	Pelabelan Menggunakan makesenses.ai	Error! Bookmark not defined.
Gambar 4. 3	Hasil Labeling.....	Error! Bookmark not defined.
Gambar 4. 4	Hasil Pembuatan Struktur Folder.....	Error! Bookmark not defined.
Gambar 4. 5	Proses Train YOLOv5	Error! Bookmark not defined.
Gambar 4. 6	Hasil Training Model.....	Error! Bookmark not defined.
Gambar 4. 10	Halaman Kehadiran Karyawan.....	Error! Bookmark not defined.
Gambar 4. 11	Laporan Kehadiran Karyawan.....	Error! Bookmark not defined.

Gambar 4. 12 Hasil Tampilan Kehadiran Karyawan **Error! Bookmark not defined.**

Gambar 4. 13 Hasil Tampilan Laporan Kehadiran..... **Error! Bookmark not defined.**

DAFTAR LAMPIRAN

Lampiran 1 Pengujian Sistem **Error! Bookmark not defined.**

Lampiran 2 Metrix.py **Error! Bookmark not defined.**



