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.**
ABSTRACT ..... **Error! Bookmark not defined.**
DAFTAR ISI viii
DAFTAR TABEL xi
DAFTAR GAMBAR xii
DAFTAR LAMPIRAN xiii
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 Kecemasan (*Anxiety)* ..... **Error! Bookmark not defined.**
2.2 Instrumen Pengukuran Tingkat Kecemasan: *Beck Anxiety Inventory* **Error! Bookmark not defined.**
2.3 Gejala Kecemasan ..... **Error! Bookmark not defined.**
2.4 *Machine learning* ..... **Error! Bookmark not defined.**
2.5 Klasifikasi Tingkat Kecemasan ..... **Error! Bookmark not defined.**
2.6 *Support Vector Machine* ..... **Error! Bookmark not defined.**
2.7 *Extreme Gradient Boosting* (XGBoost) .. **Error! Bookmark not defined.**
2.8 *Confusion Matrix* ..... **Error! Bookmark not defined.**
2.9 *Accuracy* ..... **Error! Bookmark not defined.**
2.10 *Precision* ..... **Error! Bookmark not defined.**
2.11 *Recall* ..... **Error! Bookmark not defined.**
2.12 *F1-Score* ..... **Error! Bookmark not defined.**
2.13 Aplikasi *Streamlit* ..... **Error! Bookmark not defined.**
2.14 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 Analisis Data Eksploratif (*Exoploratory Data Analysis*)..... **Error! Bookmark not defined.**
3.2.3 Pra-pemrosesan Data.....**Error! Bookmark not defined.**
3.2.4 Pembagian Data .....**Error! Bookmark not defined.**
3.2.5 Transformasi Data.....**Error! Bookmark not defined.**
3.2.6 Pelatihan Model .....**Error! Bookmark not defined.**
3.2.7 Evaluasi Model.....**Error! Bookmark not defined.**
3.2.8 Implementasi Sistem .....**Error! Bookmark not defined.**
BAB IV HASIL DAN PEMBAHASAN .....**Error! Bookmark not defined.**
4.1 Pengumpulan Data.....**Error! Bookmark not defined.**
4.2 Analisis Data Eksploratif (*Exoploratory Data Analysis*) ..... **Error! Bookmark not defined.**
4.2.1 Pemeriksaan Struktur dan Tipe Data...**Error! Bookmark not defined.**
4.2.2 Analisis Statistik Deskriptif .....**Error! Bookmark not defined.**
4.2.3 Identifikasi *Missing Value* dan Duplikasi Data. **Error! Bookmark not defined.**
4.2.4 Analisis Korelasi Antar-variabel.....**Error! Bookmark not defined.**
4.2.5 Pemeriksaan Distribusi Variabel Target ..... **Error! Bookmark not defined.**
4.3 Pra-pemrosesan Data .....**Error! Bookmark not defined.**
4.3.1 Pemisahan Fitur dan Label.....**Error! Bookmark not defined.**
4.3.2 Pelabelan Data.....**Error! Bookmark not defined.**
4.4 Pembagian Data.....**Error! Bookmark not defined.**
4.5 Transformasi Data .....**Error! Bookmark not defined.**
4.5.1 *Encoding* Variabel Kategorikal.....**Error! Bookmark not defined.**
4.5.2 Standardisasi Fitur Numerik .....**Error! Bookmark not defined.**
4.6 Pelatihan Model.....**Error! Bookmark not defined.**
4.6.1 *Support Vector Machine* (SVM) .....**Error! Bookmark not defined.**
4.6.2 *Extreme Gradient Boosting* (XG-Boost)..... **Error! Bookmark not defined.**
4.7 Evaluasi Model.....**Error! Bookmark not defined.**
4.7.1 *Support Vector Machine* (SVM) .....**Error! Bookmark not defined.**

4.7.2 *Extreme Gradient Boosting* (XG-Boost)..... **Error! Bookmark not defined.**
4.7.3 Analisis Performa Model .....**Error! Bookmark not defined.**
4.8 Implementasi Sistem .....**Error! Bookmark not defined.**
4.8.1 Tampilan Antarmuka Pengguna.....**Error! Bookmark not defined.**
4.8.2 Antarmuka *Input Data* (21 Item BAI) **Error! Bookmark not defined.**
4.8.3 Tampilan Hasil .....**Error! Bookmark not defined.**
4.8.4 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

Tabel 2.1 Penelitian Terkait .....**Error! Bookmark not defined.**
Tabel 3.1 Atribut pada Dataset.....**Error! Bookmark not defined.**
Tabel 3.2 Kategori Tingkat Kecemasan Berdasarkan BAI.. **Error! Bookmark not defined.**
Tabel 3.3 Contoh Pemeriksaan Struktur dan Tipe Data..... **Error! Bookmark not defined.**
Tabel 3.4 Contoh Analisis Statistik Deskriptif .....**Error! Bookmark not defined.**
Tabel 3.5 Contoh *Missing Value* pada Data.....**Error! Bookmark not defined.**
Tabel 3. 6 Contoh Penanganan *Missing Value* pada Data ... **Error! Bookmark not defined.**
Tabel 3.7 Contoh Duplikasi Data.....**Error! Bookmark not defined.**
Tabel 3. 8 Contoh Penanganan Duplikasi Data .....**Error! Bookmark not defined.**
Tabel 3.9 Contoh Korelasi Antar-variabel.....**Error! Bookmark not defined.**
Tabel 3.10 Contoh Pemeriksaan Distribusi Target **Error! Bookmark not defined.**
Tabel 3.11 Deskripsi Label Berdasarkan Skor BAI..... **Error! Bookmark not defined.**
Tabel 3.12 Contoh Pembagian Data.....**Error! Bookmark not defined.**
Tabel 3.13 Contoh Data Sebelum Proses *Encoding*..... **Error! Bookmark not defined.**
Tabel 3.14 Contoh Data Setelah Proses *Encoding*.**Error! Bookmark not defined.**
Tabel 3.15 Contoh Data Sebelum Proses Standardisasi..... **Error! Bookmark not defined.**
Tabel 3.16 Contoh Data Setelah Proses Standardisasi..... **Error! Bookmark not defined.**
Tabel 4.1 Ringkasan Dataset Penelitian..... 31

Tabel 4.1 Ringkasan Dataset Penelitian.....**Error! Bookmark not defined.**
Tabel 4.2 Pemisahan Fitur dan Label.....**Error! Bookmark not defined.**
Tabel 4.3 Pelabelan Data Kategori Kecemasan .....**Error! Bookmark not defined.**
Tabel 4.4 Parameter Model SVM .....**Error! Bookmark not defined.**
Tabel 4.5 Parameter Model XGBoost.....**Error! Bookmark not defined.**
Tabel 4.6 Perbandingan Performa Model .....**Error! Bookmark not defined.**
Tabel 4.7 Pengujian Sistem Berdasarkan Skor BAI ..... **Error! Bookmark not defined.**

UBP KARAWANG

DAFTAR GAMBAR

Gambar 2.1 Tabel Kuesioner *Beck Anxiety Inventory* (BAI) (Beck, Aaron T; Epstein & Steer, 1988) .....**Error! Bookmark not defined.**
Gambar 3.1 Prosedur Penelitian.....**Error! Bookmark not defined.**
Gambar 3.2 *Beck Anxiety Inventory Questionnaire Responses* ..**Error! Bookmark not defined.**
Gambar 4.1 Pemeriksaaan Struktur dan Tipe Data**Error! Bookmark not defined.**
Gambar 4.2 Statistik Deskriptif .....**Error! Bookmark not defined.**
Gambar 4.3 Hasil Pemeriksaan *Missing Value*.....**Error! Bookmark not defined.**
Gambar 4.4 Hasil Pemeriksaan Duplikasi Data.....**Error! Bookmark not defined.**
Gambar 4.5 *Heatmap* Korelasi Antar-variabel .....**Error! Bookmark not defined.**
Gambar 4.6 Distribusi Tingkat Kecemasan Berdasarkan Skor BAI..... **Error! Bookmark not defined.**
Gambar 4.7 Pembagian Data.....**Error! Bookmark not defined.**
Gambar 4.8 *Encoding* Fitur Jenis Kelamin.....**Error! Bookmark not defined.**
Gambar 4.9 *Encoding* Fitur Kelompok Usia.....**Error! Bookmark not defined.**
Gambar 4.10 *Encoding* Target .....**Error! Bookmark not defined.**
Gambar 4.11 Standardisasi Fitur Numerik.....**Error! Bookmark not defined.**
Gambar 4.12 *Confusion Matrix* - SVM .....**Error! Bookmark not defined.**
Gambar 4.13 *Confusion Matrix* - XGBoost.....**Error! Bookmark not defined.**
Gambar 4.14 Tampilan Antarmuka Pengguna.....**Error! Bookmark not defined.**
Gambar 4.15 Item BAI 1-10 .....**Error! Bookmark not defined.**
Gambar 4.16 Item BAI 11-21 .....**Error! Bookmark not defined.**
Gambar 4.17 Tampilan Hasil Prediksi.....**Error! Bookmark not defined.**

DAFTAR LAMPIRAN

Lampiran 1. Lembar Bimbingan Tugas Akhir.....**Error! Bookmark not defined.**
Lampiran 2. Lembar Turnitin Tugas Akhir .....**Error! Bookmark not defined.**
Lampiran 3. Surat Pernyataan Validasi Pakar.....**Error! Bookmark not defined.**