

DAFTAR GAMBAR

Gambar I.1 <i>Data Diabetes Around the World</i>	2
Gambar II.1 <i>Data Mining as A Step in the Process of Knowledge Discovery</i>	11
Gambar II.2 <i>Types of Machine Learning</i>	16
Gambar II.3 <i>Gradient Boosting Machine Algorithm</i>	17
Gambar II.4 <i>K-Fold Cross Validation Process</i>	21
Gambar II.5 <i>Receiver Operating Characteristic (ROC) Curve</i>	25
Gambar III.1 <i>Conceptual Model</i>	30
Gambar III.2 <i>Sistematika Penelitian</i>	32
Gambar IV.1 <i>Tahapan Analisis</i>	37
Gambar IV.2 <i>Data Rekam Medis Pasien</i>	39
Gambar IV.3 <i>Data Penunjang Penyakit</i>	40
Gambar IV.4 <i>Karakteristik Statistik Deskriptif</i>	42
Gambar IV.5 <i>Distribusi Kelas Target</i>	42
Gambar IV.6 <i>Distribusi Umur</i>	43
Gambar IV.7 <i>Distribusi Umur Per Diagnosis</i>	43
Gambar IV.8 <i>Data Outlier pada Dataset</i>	44
Gambar IV.9 <i>Contoh Data Duplikasi</i>	45
Gambar IV.10 <i>Jumlah Data Null</i>	46
Gambar IV.11 <i>Kode Data Handling Null</i>	47
Gambar IV.12 <i>Data Hasil Penanganan Null</i>	47
Gambar IV.13 <i>Kode Data Handling Outlier</i>	48
Gambar IV.14 <i>Data Hasil Penanganan Outlier</i>	49
Gambar IV.15 <i>Perbandingan Data Sebelum dan Sesudah Preprocessing</i>	49
Gambar IV.16 <i>Data Hasil Formatting</i>	50
Gambar IV.17 <i>Kode Splitting Data</i>	51
Gambar IV.18 <i>Diagram Alur Proses Grid Search</i>	52
Gambar IV.19 <i>Kode Proses Grid Search</i>	52
Gambar IV.20 <i>Kode Proses K-Fold Cross Validation</i>	54
Gambar IV.21 <i>Kode Inisialisasi Model</i>	55
Gambar IV.22 <i>Kode Pelatihan Model</i>	55
Gambar IV.23 <i>Kode Penyimpanan Model</i>	56

Gambar IV.24 Kode Evaluasi Model.....	56
Gambar IV.25 Kode Pembuatan <i>Confusion Matrix</i>	60
Gambar IV.26 Kode Mencari Nilai <i>Classification Report</i>	60
Gambar IV.27 Kode Menghasilkan Nilai Kurva ROC (AUC)	61
Gambar V.1 <i>Confusion Matrix</i> (90:10).....	65
Gambar V.2 <i>Confusion Matrix</i> (80:20).....	68
Gambar V.3 <i>Confusion Matrix</i> (70:30).....	71
Gambar V.4 <i>ROC Curve</i> (90:10)	74
Gambar V.5 <i>ROC Curve</i> (80:20)	75
Gambar V.6 <i>ROC Curve</i> (70:30)	76
Gambar V.7 Visualisasi Hasil <i>Feature Importance</i>	80