

model_performance_enhanced.xlsx

Model	Train_Ac curacy	Test_Ac curacy	Validation_Ac curacy	Train_Pre cision	Test_Pre cision	Validation_ Precision	Train_ Recall	Test_ Recall	Validation_ Recall	Train_F1	Test_F1	Validation_ F1	Balanced_ Accuracy	CV_Mean
Random Forest	1	0.9979	0.9987	1	0.9979	0.9987	1	0.9979	0.9987	1	0.9979	0.9987	0.9907	0.9830
SVM	0.8832	0.8843	0.8705	0.8970	0.8979	0.8857	0.8832	0.8843	0.8705	0.8758	0.8765	0.8617	0.7579	0.7726
Logistic Regression	0.5587	0.5707	0.5542	0.6669	0.6672	0.6638	0.5587	0.5707	0.5542	0.5904	0.6008	0.5861	0.5827	0.5994