	Optimal_Parametrization
KNN	All_K1
LR	Numeric & Interactions
DT	cp=0; minsplit=9; minbucket=1; maxdepth=15
RF	ntree=100; mtry=18; sampsize=1; nodesize=1; maxnodes=30
XGB	max_depth=10;max_iter=90;step_size=0.16;gamma=0.1;min_child_weight=1;subsample=1;colsample_bytree=0.5
SVM	Radial.Kernel_C0.5

AUC by 5−Fold Cross−Validation

	Fold_1	Fold_2	Fold_3	Fold_4	Fold_5	Mean_AUC
XGB	0.997	0.9865	0.9958	0.9839	0.9939	0.9914
RF	0.9868	0.9844	0.9917	0.9613	0.9895	0.9827
DT	0.9663	0.9703	0.9345	0.9398	0.9829	0.9587
KNN	0.9578	0.9436	0.9688	0.9422	0.9762	0.9577
LR	0.7824	0.8784	0.887	0.7039	0.8795	0.8262
SVM	0.1893	0.8571	0.8972	0.6998	0.8921	0.7071

AUC by 5−Fold Cross−Validation

XGB: Mean AUC = 0.9914
RF: Mean AUC = 0.9827
DT: Mean AUC = 0.9587
KNN: Mean AUC = 0.9577
LR: Mean AUC = 0.8262
SVM: Mean AUC = 0.7071