

Logistic Regression Model Metrics

All stages are measured with one-hot SMOTE dataset unless specified otherwise.

Stage	Accuracy	Precision	Specificity	Recall	F1-Score
Research Paper Model	85.48%	85.15%		85.48%	85.31%
Base Model	70.67%				
Manual Feature Selection	82.16%				
Filter Feature Selection Method	87.97%				
Wrapper Feature Selection Method	88.38%				
Hyperparameter Tuning (GridSearchCV)	91.62%	95.85%	96.21%	87.06%	91.24%
Hyperparameter Tuning (RandomSearchCV)	91.89%	95.87%	96.21%	87.60%	91.55%