Model Selection Report

Team ID: SWTID1720067156

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Model Development Phase

Team ID: SWTID1720067156

Project Title: Lymphography Classification Tool

Maximum Marks: 6 Marks

Model Selection Report

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy and F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

Model	Description	Hyperparameters	Performance
			Metric
Random Forest	Ensemble of decision trees; robust,	-	Accuracy =
	handles complex relationships, reduces		83%
	overfitting, and provides feature		
	importance for lymphography		
	classification.		
Decision Tree	Simple tree structure; interpretable,	-	Accuracy =
	captures non-linear relationships,		83%
	suitable for initial insights into		
	lymphography patterns.		
KNN	Classifies based on nearest neighbors;	-	Accuracy =
	adapts well to data patterns, effective		80%
	for local variations in lymphography		
	criteria.		
Gradient Boosting	Gradient boosting with trees;	-	Accuracy =
	optimizes predictive performance,		82%
	handles complex relationships, and is		
	suitable for accurate lymphography		
	predictions.		