



Model Development Phase Template

			Performance Metric (e.g., Accuracy, F1 Score)
Model	Description	Hyperparameters	

N h	K-Nearest Neighbour got highest accuracy in our model	Best parameters: {'bootst rap': False, 'max_depth': 2 0, 'max_features': 'sqrt', 'min_samples_leaf': 1, 'min_samples_split': 10, 'n_es timators': 200}	Accuracy: 0.887719298245614 Confusion Matrix: [[68 21] [11 185]] Classification Report: precision recall f1-score support					
		,	NO	0.86	0.76	0.81	89	
			YES	0.90	0.94	0.92	196	
			accuracy			0.89	285	
			macro avg	0.88	0.85	0.86	285	
			weighted avg	0.89	0.89	0.89	285	

Date	30 JUNE 2025		
Team ID	LTVIP2025TMID36055		
Project Title	Revolutionising Liver Care- Predicting Liver Cirrhosis using advanced Machine Learning		
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 or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

Model Selection Report:





XgBoost	We have used XgBoost with best parameters	Best parameters: {'colsa mple_bytree': 0.8, 'learni ng_rate': 0.01, 'max_dept h': 5, 'n_estimators': 200, 'subsample': 0.8}	Confusion Matr [[39 16] [10 125]] Classification	recall	f1-score	support	
			0	0.80	0.71	0.75	55
			1	0.89	0.93	0.91	135
			accuracy			0.86	190
			macro avg	0.84	0.82	0.83	190
			weighted avg	0.86	0.86	0.86	190
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