



Model Development Phase Template

Date	10 July 2024
Team ID	739688
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:

Model	Description	Hyperparameters	Performance Metric (e.g., Accuracy, F1 Score)				
KNN	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: 0.8877192982 Confusion Matrix: [[68 21] [11 185]] Classification Report:	n recall 5 0.76 9 0.94 3 0.85		support 89 196 285 285 285	





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 Matri [[39 16] [10 125]] Classification p 1 accuracy macro avg weighted avg	recall 0.71 0.93 0.82 0.86	f1-score 0.75 0.91 0.86 0.83 0.86	support 55 135 190 190 190
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