

Model Development Phase Template

Date	12 JULY 2024
Team ID	740022
Project Title	Lymphography Classification Using ML
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. . Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Class	Target variable indicating the classification	Yes	Essential for supervised learning
lymphatics	Lymphatic involvement	Yes	Potentially indicative of lymph node abnormalities
block of affere	Blockage of afferent lymph vessels	Yes	Relevant to identifying lymphatic system disruptions
bl. of lymph. c	Blockage of lymphatic channels	Yes	Critical for understanding lymph flow issues

bl. of lymph. s	Blockage of lymphatic sinuses	Yes	Important for diagnosing internal lymphatic blockages
by pass	Presence of bypass in lymphatic system	Yes	Less directly related to classification; may introduce noise
extravasates	Extravasation in lymph nodes	Yes	Directly related to lymph node condition
regeneration of	Regeneration of lymphatic tissues	Yes	Indicative of recovery or progression of lymphatic issues
early uptake in	Early uptake in lymph nodes	Yes	Can indicate abnormal lymph node activity
lym.nodes dimin	Diminished lymph nodes	Yes	Key feature for identifying reduced lymphatic function
lym.nodes enlar	Enlarged lymph nodes	Yes	Common sign of abnormalities like infections or malignancies
changes in lym.	Changes in lymph nodes	Yes	General indicator of lymph node health
defect in node	Defects in lymph nodes	Yes	Directly related to lymph node abnormalities
changes in node	Changes in nodes	Yes	Relevant for tracking abnormal node conditions
changes in stru	Changes in node structure	Yes	Structural changes can indicate serious issues

special forms	Special formations in lymph nodes	No	Too vague; lacks specific relevance
dislocation of	Dislocation of lymph nodes	No	Rare occurrence; less likely to contribute significantly
exclusion of	Exclusion of certain nodes	No	Less impactful on overall classification accuracy
no. of nodes in	Number of nodes involved	Yes	Quantitative measure of lymph node involvement