

Model Development Phase Template

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| Date | 09 JULY 2024 |
| Team ID | 739734 |
| Project Title | Evolving efficient classification patterns in Lymphography |
| Maximum Marks | 5 Marks |

Feature Selection Report Template

In this report, each feature will be accompanied by a brief description. We will indicate whether it is selected or not, providing reasoning for our decision. This process will streamline decision-making and enhance transparency in feature selection.

| Feature | Description | Selected (Yes/No) | Reasoning |
|------------------|------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------|
| class | Class of the lymphography result (normal find, metastases, malign lymph, fibrosis) | Yes | The target variable for predictive modeling - essential for the project's goal. |
| lymphatics | Status of lymphatics (normal, arched, deformed, displaced) | Yes | Relevant for understanding lymphatic abnormalities. |
| block of afferen | Block of afferent lymphatic (no, yes) | Yes | Indicates potential blockages in lymphatic flow. |
| bl. of lymph. c | Block of lymphatic collector (no, yes) | Yes | Crucial for identifying lymphatic collector blockages. |
| bl. of lymph. s | Block of lymphatic sinuses (no, yes) | Yes | Important for assessing blockages in lymphatic sinuses. |
| by pass | Bypass of lymph nodes (no, yes) | Yes | Determines if there are bypasses affecting lymph flow. |
| extravasates | Extravasates present (no, yes) | Yes | Indicates the presence of extravasates, which is important for diagnosis. |
| regeneration of | Regeneration of lymphatic tissue (no, yes) | Yes | Shows tissue regeneration status, relevant for medical assessment. |
| early uptake in | Early uptake in lymph nodes (no, yes) | Yes | Indicates early uptake which is crucial for early diagnosis. |
| lym.nodes dimin | Lymph nodes diminishment (0-3) | Yes | Important for measuring the extent of lymph node diminishment. |

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| lym.nodes enlar | Lymph nodes enlargement (1-4) | Yes | Indicates the level of lymph node enlargement, relevant for diagnosis. |
| changes in lym. | Changes in lymph nodes (bean, oval, round) | Yes | Describes morphological changes in lymph nodes. |
| defect in node | Defect in lymph node (no, lacunar, lac. marginal, lac. central) | Yes | Identifies types of defects in lymph nodes. |
| changes in node | Changes in node (no, lacunar, lac. margin, lac. central) | Yes | Shows specific changes within the lymph node structure. |
| changes in stru | Structural changes (no, grainy, drop-like, coarse, diluted, reticular, stripped, faint) | Yes | Describes structural changes in lymphatic tissue. |
| special forms | Special forms present (no, chalices, vesicles) | Yes | Indicates special forms which are significant for diagnosis. |
| dislocation of | Dislocation of lymph nodes (no, yes) | Yes | Determines if there is any dislocation of lymph nodes. |
| exclusion of no | Exclusion of nodes (no, yes) | Yes | Indicates if certain nodes are excluded from the normal flow. |
| no. of nodes in | Number of nodes involved (0-9, 10-19, 20-29, 30-39, 40-49, 50-59, 60-69, ≥ 70) | Yes | Quantifies the number of nodes involved, essential for diagnosis. |