**Model Development Phase Template**

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| Date | 12 JULY 2024 |
| Team ID | 740036 |
| Project Title | Lymphography Classification Using ML |
| Maximum Marks | 6 Marks |

**Model Selection Report**

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| **Model** | **Description** | **Hyperparameters** | **Performance**  **Metric (e.g.,**  **Accuracy, F1**  **Score)** |
| SVM | In lymphography classification, SVM can efficiently handle the high-dimensional data typical of medical records. | - | Accuracy score =  80% |
| Decision  Tree | Decision Trees can model complex decision-making processes in lymphography, accommodating both numerical and categorical data from imaging features. | - | Accuracy score =  80% |
| KNN | k-NN can classify lymphographic images by comparing new | - | Accuracy score =  83% |

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.



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|  | Records to previously seen records ,identifying similar patterns in the lymphatic structures. |  |  |
| Gradient  Boosting | Gradient Boosting can handle complex relationships in lymphographic data, providing high accuracy and robustness | - | Accuracy score =  83% |