 

**Model Development Phase Template**

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| Date | 10 July 2024 |
| Team ID | 739893 |
| Project Title | Sepsis Survival Minimal Clinical Records |
| Maximum Marks | 6 Marks |

**Model Selection Report**

In the forthcoming Model Selection Report for sepsis survival prediction using minimal clinical records, various models will be outlined, detailing their descriptions, hyperparameters, including Accuracy or F1 score. This comprehensive report will provide insights into the chosen models and their effectiveness.

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| **Model** | **Description** | **Hyperparameters** | **Performance metric(Accuracy)** |

 

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| Random Forest | Ensemble of decision trees; robust ,handles complex relationships, reduces overfitting, and provides feature importance for sepsis survival prediction | - | Accuracy = 89% |
| Decision Tree | Simple tree structure; interpretable, captures non-linear relationships, suitable for initial insights into sepsis survival patterns. | - | Accuracy = 89% |
| KNN | Classifies based on nearest neighbors; adapts well to data patterns, effective for sepsis survival prediction. | - | Accuracy = 88% |
| Logistic Regression | Used to model the relationship between a binary dependent variable and one or more independent  variable | - | Accuracy = 89% |