 

Model Development Phase Template

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| Date | 20 July 2024 |
| Team ID | 739716 |
| Project Title | Predicting Baseline Histological staging in HCV patients using machine learning |
| Maximum Marks | 5 Marks |

**Model Selection Report**

In the model selection report for future deep learning and computer vision projects, various architectures, such as CNNs or RNNs, will be evaluated. Factors such as performance, complexity, and computational requirements will be considered to determine the most suitable model for the task at hand.

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| **model** | **Description** |
| Decision tree | Decision trees are inherently interpretable.clicians can  understand the decision making process by making the tree  structure |
| Random forest | Researchers often use real word  data from hcv patients. Clinicians can  identify critical features (e.g., liver enzymes, age) for HCV predictionClinicians can  identify critical features (e.g., liver enzymes, age) for HCV predictio |

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| XGboost model | XGBoost assigns  importance scores to each feature based on how much it contributes to  reducing the loss function. |
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