**Model Development Phase Template**

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| Date | 12 July 2024 |
| Team ID | SWTID1720092248 |
| Project Title | Revolutionizing Liver Care: Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques |
| Maximum Marks | 4 Marks |

**Initial Model Training Code, Model Validation and Evaluation Report**

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

**Initial Model Training Code:**

Paste the screenshot of the model training code

**Model Validation and Evaluation Report:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Classification Report** | **Accuracy** | **Confusion Matrix** |
| logistic regression | Screenshot of the classification report | 0.996606 |  |
| logistic regression CV | Screenshot of the classification report | 0.996606 |  |
| XGBoost | … | 0.997738 |  |
| Ridge classifier |  | 0.977376 |  |
| KNN |  | 0.935520 |  |
| Random Forest |  | 1.000000 |  |
| Support Vector Classifier |  | 0.997738 |  |