

## Model Development Phase Template

Date	15 July 2024
Team ID	739984
Project Title	Genetic Classification of an Individual by Using Machine Learning
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:

### Model Validation and Evaluation Report:

Model	Classification Report	Accuracy	Confusion Matrix
RandomForest Classifier	<pre> Classification Report:               precision    recall  f1-score   support       0       1.00      1.00      1.00         2      1       1.00      1.00      1.00         3   accuracy          1.00          1.00          1.00         5  macro avg          1.00          1.00          1.00         5  weighted avg       1.00          1.00          1.00         5 </pre>	1.0 Or 100%	<pre> Accuracy: 1.0 Confusion Matrix: [[2 0]  [0 3]] </pre>
Logistic Regression	<pre> Classification Report:               precision    recall  f1-score   support       0       0.83      1.00      0.91         5      1       0.75      0.60      0.67         5      2       0.80      0.80      0.80         5      3       0.80      0.80      0.80         5   accuracy          0.80          0.80          0.80        20  macro avg          0.80          0.80          0.79        20  weighted avg       0.80          0.80          0.79        20 </pre>	0.8 Or 80%	<pre> Confusion Matrix: [[5 0 0 0]  [1 3 0 1]  [0 1 4 0]  [0 0 1 4]] </pre>