

Model Development Phase Template

Date	15 July 2024
Team ID	739787
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 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 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>