



Model Development Phase Template

Date	15 July 2024
Team ID	739756
Project Title	Unveiling Baldness: Genetic And Environmental Dynamics
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:

```
from sklearn.linear_model import LogisticRegression
lo=LogisticRegression()

] lo.fit(xtrain,ytrain)

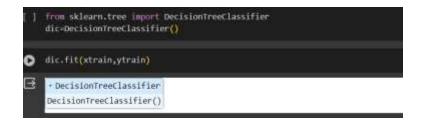
ypred=lo.predict(xtest)
ypred
```

```
y train_pred = lo.predict(xtrain)
ypred = lo.predict(xtest)

from sklearm.metrics import accuracy score.classification report.confusion matrix
accuracy_ir = accuracy_score(ytest,ypred)
cla=classification_report(ytest,ypred)
print("train_neutrix(ytest,ypred)
print(accuracy_score(ytrain, y_train_pred)*iso)
print("classification_neutrix(ytest, ypred)
print("classification_neport;")
print("classification_neport;")
print("classification_neport;")
print("confusion_natrix:")
print("confusion_natrix:")
print("confusion_natrix:")
print("confusion_natrix:")
print(confusion_natrix:")
```







		F1 Scor e	
Model	Classification Report		Confusion Matrix





Random Forest	Classification	Report: precision	recall	f1-score	support	81%	confusion_matrix:
	0	0.55	0.48	0.51	110		[[49 61]
	1	0.45	0.51	0.48	90		[59 31]]
	accuracy			0.49	200		
	macro avg	0.50	0.50	0.49	200		
	weighted avg	0.50	0.49	0.50	200		

Model Validation and Evaluation Report:

Decision Tree	Classification Report: precision		recall	f1-score	support	79%	confusion_matrix: [[49 61]	
	Ð	0.45	0.45	0.45	110			
	1	0.34	0.34	0.34	90		[59 31]]	
	accuracy			0.40	200			
	macro avg	0.40	0.39	8.48	200			
	weighted avg	0.40	0.40	8.40	200			
		0.00000	10108002	1097000	397999			