



Model Development Phase Template

Date	15 July 2024	
Team ID	739718	
Project Title	Polycystic Ovary Syndrome Classification 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:

```
#splitting into training and testing dataset
from sklearn.model_selection import train_test_split
X_train,X_test,Y_train,Y_test=train_test_split(X,Y,test_size=0.2,random_state=30)
```

Model Validation and Evaluation Report:

	n una Evaluation Report	
	Classification Report& Accuracy	
Model	٠	Accuracy

Random forest classifier

random forest classifier

random forest, first, forest, predict(x test)

acc pfacturary score(y test, y pred)
c, pf-classification_report(_test, y_pred)

print(_scarps) score(, test, y_pred)

print(_scarps) score(, test, y_pred)

Accuracy score(, test, y_pred)

print(_scarps) score(, test, y_pred)

print(_scarps) score(, test, y_pred)

print(_scarps) score(, test, y_pred)

accuracy score(, test, y_pred)

decrease score(, test, y_pred)

legistric scarps score(, test, y_pred)

decrease score(, test, y_pred)







