



Model Development Phase Template

Date	20 June 2024	
Team ID	740114	
Project Title	Customer Acquisition cost estimation using machine learning.	
Maximum Marks	4 Marks	

Initial Model Training Code, Model Validation and Evaluation Report

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.metrics import mean_squared_error, r2_score
from sklearn.model_selection import train_test_split
from sklearn import metrics
from sklearn.ensemble import RandomForestRegressor
rf = RandomForestRegressor()
rf.fit(train_X,train_y)
print('Attempting to fit Random Forest Regressor')
```





Model	Classification Report	F1 Score	Confusion Matrix

```
Forest

from sklearn.metrics import mean_squared_error, r2_score
from sklearn.model_selection import train_test_split
from sklearn import metrics
from sklearn.ensemble import RandomForestRegressor
rf = RandomForestRegressor()
rf.fit(train_X,train_y)
print('Attempting to fit Random Forest Regressor')

Attempting to fit Random Forest Regressor

Attempting to fit Random Forest Regressor
```

Model Validation and Evaluation Report:

