



Model Development Phase Template

Date	12 JULY 2024
Team ID	739752
Project Title	Air Quality Index Analyzer Using ML
Maximum Marks	4 Marks

Model	Classification Report	Accuracy
Random forest classifier	from sklearm.ensemble_import RandomForestRegressor rf_regressor = RandomForestRegressor(random_state=22,a_estimators=28) rf_regressor.fit(X_train, y_train) - RandomForestRegressor RandomForestRegressor(a_estimators=28, random_state=42) print("R2 Score :[]".format(rf_regressor.score(X_test,y_test))) R2 Score :R 384994SH1208922	Random Forest Regressor R2 Score is : 0.888464414152618







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.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=0)
```

Model Validation and Evaluation Report:





