## **Model Development Phase Template**

Date		16 july 2024		
Team ID		740033		
Project Title		Car Performan	ce Prediction Using ML	
Maximum Marks		4 Marks		
Mode l	Classification Report		Accuracy	
Rand om forest classif ier	<pre>random forest regressor  [ ] from sklearn.ensemble import RandomForestR</pre>		▼ RandomFore	estRegressor
			RandomForestRegressor(criterion=' random_stat	_
	rf= RandomForestRegressor(n_estimators=10, rf.fit(x_train,y_train) <ipython-input-48-5710e01e300c>:2: DataCon rf.fit(x_train,y_train)  ✓ RandomForestRegres RandomForestRegressor(criterion='absolute</ipython-input-48-5710e01e300c>			
Decisi on Tree classif ier	Model Building  from sklearn.tree import DecisionTreeRegressor	dom_state=0)	R2 Score is: 0.7944373542615825	ree Regressor

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=

## **Model Validation and Evaluation Report:**

